Startling Savings on Labor Costs Described in this Issue

No. 14

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CHICAGO AND NEW YORK

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OFFICIAL ORGAN OF THE INSTITUTE OF AMERICAN MEAT PACKERS AND THE AMERICAN MEAT PACKERS' TRADE AND SUPPLY ASSOCIATION

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No. 14.

Labor Costs in the Packing Plant

How They May Be Reduced by Time Study and the Application of a Production Bonus Plan — Method Has Been a Success in Other Industries — Results of Application to a Meat Plant

Labor cost has been one of the bugbears of the meat packing industry, especially in recent years. In the old days of big margins and careless methods it was not so much thought about. But as wages went up and margins went down it became a troublesome question.

The larger the packer's operations, the greater his labor difficulties, especially where the labor union element figured in the situation. Even so-called small packers had trouble with the labor question.

About a year ago this labor union difficulty came to a head in a strike which resulted in the apparent defeat and wiping out of the packing house labor unions. But wise packers, large or small, whether they were involved in this union controversy or not, have recognized that such an outcome by no means settled the labor problem. So long as discontent is present, such troubles are always likely to recur-

Need More Than Good Feeling.

Packers have gone a long way toward solving the problem of industrial relations by the adoption of various employees' representation plans, which have been fully described in the pages of THE NATIONAL PROVISIONER. But even the success of these plans does not put beyond question the recurrence of labor difficulties

And certainly it does not get to the root of the matter of labor costs. Something more must be done than to devise and carry out employees' representation plans. And everybody agrees that "cutting wages" or "trimming the force" is not wise or lasting economy.

When THE NATIONAL PROVISIONER recently opened the discussion of a "time study" to reduce labor costs in the pack-

ing industry, some people may have considered it either too "highbrow" or an impractical method as applied to our industry. Possibly a good many who noticed the opening article by Mr. Leonard E. Rollins, a packinghouse consulting engineer, either did not take the trouble to read it, or dismissed it as being something over the heads of most people.

Some Startling Results.

Nevertheless such a study is being carried on in the packing industry at this time, and plans based on it already are being tried out in one or more plants.

The results are almost too startling to be believed. While it is not possible to give them in detail at this time, yet it can be stated that in one plant in the Middle West a method of wage payment has been put in force which has effected remarkable savings in labor cost, and at the same time has enabled the workers to increase their earnings.

Eight Cents a Hog!

If a packer told you he put a new plan into effect by which he saved 8 cents per hog on the labor cost in his killing and cutting departments — would you believe him?

It has been done, not a thousand miles from Chicago, through the adoption of a "production bonus plan." And the men earned from 10 to 15 per cent more pay while doing it, too!

Are you keeping up with this discussion on the "Time Study of Labor Costs?"

To reduce wage costs while increasing wages may seem impossible, but it has been done. By paying his men according to the amount of work they do, and their efficiency in doing it—instead of paying them merely for the time they put in—this packer has already shown a saving on his labor cost of 8 cents per hog in his killing and cutting departments. And his men are earning from 10 to 15 per cent more in wages!

Made Money for Both.

This is the result of a time study of labor costs in one plant, and the showing was made after the bonus system had been in effect only two weeks. This is remarkable, and should not be taken as a standard, since in other industries where the production bonus plan has been tried it usually has been four months before such results were obtained.

Another feature reported by this plant executive was this: Before the plan was tried the labor "turnover" averaged 15 per cent per week. After it had been in effect two weeks the attendance in the killing and cutting departments, where it was tried, was practically 100 per cent.

Superintendents will appreciate what this means in these days of uncertain and unreliable labor conditions.

It is apparent that there is something worth while in this time study of labor costs in the packing house. An industrial engineer who has made a success of this work in other industries, and whose study in the meat packing field brought the results here referred to, writes to THE NATIONAL PROVISIONER at its request concerning its discussion of this subject, and touches upon the peculiar conditions

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as he found them in this industry. His communication is printed here. It will be followed by further discussion of the subject, in which every packer who figures his labor costs should be interested.

A Study of Labor Costs

By Hasbrouck Haynes.

By its course in taking up editorially and through the publication of such articles as that in a recent issue by Leonard E. Rollins on "Time Study to Reduce Labor Costs in the Packing Industry," THE NATIONAL PROVISIONER is doing the industry at large a very valuable service.

In speaking of the efficiency of private over government ownership of railroads, Dr. Julius Parmelee, Director of the Bureau of Railway Economics, said:

"History teaches that the removal of the economic incentive leads to inefficiency and decay. Whether we like it or not, the only great motive underlying our great industries and economic progress has been the operation of the factor of individual self-interest."

The same principle applies to labor—it is based on the first law of nature, self-preservation.

Experience has shown that if a workman is given the opportunity to share financially in the savings resulting from doing his work more efficiently, he will do not only quicker but also better work, and his interest will be greatly stimulated. He then goes into "business for himself."

More Efficiency, Less Labor Cost.

Mr. Rollins is correct in stating that labor incentives based on time study analyses have increased individual workers' output from two to four times in other industries. But I am sure Mr. Rollins did not intend to infer that one could expect such remarkable results throughout an entire organization. While such extraordinary increases in output occur not infrequently at certain points throughout any concern first employing incentives, it has nevertheless been my experience that if the average productivity of a department or the plant as a whole is increased from 30 to 50 per cent it is doing exceptionally well. And unless there is some radical change in the method of doing the work this is about as much as can be expected.

However, increases in efficiency such as from 30 to 50 per cent will have a very marked effect on the reduction of labor cost, which, under these circumstances, should decrease after paying all bonuses at least from 15 to 25 per cent. Such payroll savings I have witnessed in many industries, and I have also equaled them in all departments of the meat packing industry which I have studied to date.

Packer's Situation is Peculiar.

It is indeed fitting and proper that the one industry which stands out prominently above all others for economy and efficiency in many ways, and especially in the utilization of its by-products, should now strive for a similar position among the great industries of the country in its labor efficiency. But there are many variables in the meat packing industry that must be carefully considered and provided for in order to arrive at a plan for labor compensation equally satisfactory and fair to both employer and employe.

As a comparative newcomer in this industry, I can see many reasons why labor incentives and other so-called scientific production methods have not until recently been applied to any great extent to the production of meat and its by-products. As you well know, there is a great difference between the production conditions in this industry and those of other industries. Possibly no one condition in itself is so important, but the fact that there are so many peculiar conditions is what I believe has baffled engineers and others who, in the past, may have attempted such installations.

When I first investigated the meat packing business from the standpoint of labor incentives I was completely bewildered.

For example, it was the first experience I had ever had in connection with my engineering work where my raw material could not be stored for any length of time without "eating its head off," and which came into the plant by its own motive power. Then I was greatly perplexed to find that there was no such thing as a production schedule, as the receipts and purchases of livestock are undeterminable in advance, and a perishable raw material and its product have to be kept moving.

It took me some little time to fully grasp the significance of "disassembling" my raw material to make my major finished products, which, of course, is the reversal of the usual manufacturing or fabricating process.

Then, to add to the complexity of my raw material situation, I found that, like thumb prints, no two of my raw material units were necessarily alike, and the variation in weight alone might be upwards of a 100 or even 200 per cent.

To further disconcert me I was very much surprised to find that any impairment of product due to increasing the speed would cost many times the possible saving in labor.

A Hard Problem to Solve.

On top of all these variable conditions, and many others not mentioned, I found that the nature of the work from department to department also varied completely, and the changes were just about as abrupt as going from a Turkish bath into a cold plunge. For example, from a production standpoint, there is little, if any, relation between slaughtering cattle and refining lard, although both may be done under the same roof.

However, I am happy to be able to say that these conditions are by no means insurmountable in the application of labor incentives. But from difficulties already experienced and problems solved in this in-

Your Fuel Losses?

How much money is going up your packinghouse chimney in smoke?

How much is leaking away through faulty pipe coverings and faulty insulation?

Are you reading the articles written for THE NATIONAL PROVISIONER by experts on these subjects?

dustry, I am convinced that any method, to be successful, must be designed only after making a very thorough and careful analysis of all of the many factors bearing on production.

The compensation behind all this work is well worth the trouble, because the more unstandard the conditions the greater becomes the opportunity for savings through labor incentives and for paying liberal bonuses to employes.

Method of Paving Wages.

The establishing of time standards is only half of the problem, as the selection of the method of wage payment is equally as important a factor. The ordinary piece work system for paying labor is not sufficiently flexible to adjust itself to the many variable conditions of the meat packing business.

The standard time and bonus system in my judgment is the most desirable wage payment method from the standpoint of the management, as well as that of the men. The following statement from Babson's Reports further indicates the desirability of the production bonus as a wage payment method:

"When we say 'bonus' we do not mean mere gift bonuses. There is an infinity of such plans. Boiled down, they simply mean that the employer makes up his mind to stage a 'hand-out' to his employes. Such gifts are usually of questionable service. They raise expectations and when they are afterwards omitted they cause regret.

They raise expectations and when they are afterwards omitted they cause regret.

"An employer should be able to find something better to do with his surplus cash than to give it away for nothing. If there is some good reason for his giving it away, the gift and the reason should be closely correlated and plainly set forth. This the production bonus plan sets out to do.

The Right Kind of Bonus Plan.

"Of course this idea is in no way new. Its oldest and commonest form is the salesman working on salary and commission. He has a guarantee that amounts to a meal ticket and what the firm pays him in addition depends on the amount of business he does. There is usually no limit except the sky. * * What we are talking about here is the extension of this idea down into the works, whereby the worker is made to depend for his wages upon the amount of work he turns out, or upon other items desirable in an efficient plant."

An Effort Worth While.

The progressive program of the Institute of American Meat Packers indicates the alertness on the part of packers to take advantage of every means for bettering their conditions. If bringing sustenance, happiness and comfort to one's fellow beings is a true measure of usefulness in this world, the meat packing industry may well be said to be the most useful of all industries, and is one in which every economy and efficiency is well worth while. To me the variety of conditions encountered and problems to be solved are most fascinating.

Permit me to again express my hearty approval of THE NATIONAL PROVISION-ER'S campaign for lower labor costs through the application of a scientific analysis and, if I may add, the adoption of a more flexible method of wage payment for incentives than piece work, which has been employed in the past.

Yours very truly, HASBROUCK HAYNES.

[EDITOR'S NOTE.—Further discussion of this subject will appear in an early issue of THE NATIONAL PROVISIONER.]

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Packers to Promote Trade Extension

Special Committee Appointed by President of the Institute to Take Up Many Matters Affecting the Welfare of the Industry

Charles E. Herrick, president of the Institute of American Meat Packers, this week announced the creation and appointment of a Committee on Trade Extension, for the express purpose of promoting increased meat consumption and of co-operating with the National Livestock and Meat Board to this end. All sections of the United States are represented in the membership of this committee. A full list of the appointees is given below.

Mr. Herrick states that a meeting of the committee will be held in Chicago at an

In advising members of the committee of their appointment, Mr. Herrick said:

Purpose of the Special Committee.

"The Institute's Central Administrative Committee at its recent meeting approved the suggestion submitted by a number of its members to the effect that there should be a general committee appointed for the purpose of carrying out the work outlined by the National Live Stock and Meat Board, and the various standing committees of the Institute. In view of the fact that the campaign to promote meat consumption is now organized on a permanent basis and the organization has employed a managing director, it is essential that our members be prepared to co-operate in the movement in every possible way.

"I am, therefore, appointing a committee of representative members fairly distributed throughout the country. This will be known as the Special Committee on Trade Extension. In selecting these men I have been guided by a desire to designate those who are interested in work of this character, and who are conveniently located with reference to their associates in the same territory.

in the same territory.

"It is desirable that we have a good attendance at the first meeting of the Committee, and this will be held in Chicago at an early date. Notice will be sent out sufficiently in advance so that every member may be present. Later meetings may be called from time to time.

"The standing committees of the Institute have been and are considering many important subjects. Prior to the meeting of the Special Committee, recommendations on certain important subjects will be made by the standing committees, and, af-

tions on certain important subjects will be made by the standing committees, and, af-ter approval by the Central Administrative Committee, will be outlined in detail to this meeting of the Special Committees.

Plans to Be Considered.

This committee will then be asked to make those approved plans and policies effective throughout the industry. The following subjects are among the important matters which the standing committees of the Institute have under consideration.

1. Co-operate in carrying out the pur-poses and plans of the National Live Stock and Meat Board, with possible considera-tion of promoting a National Meat Food

Economical and efficient methods of packing and preparing products for the trade, and a further standardization of containers. This will contemplate the preparation of an exhibit that will vividly portray the need for prompt adoption of

recommendations designed to lessen the number of types of containers in use.

number of types of containers in use.

3. Suggestions pertaining to methods of the Bureau of Animal Industry inspectors, and possible recommendations to the Bureau as to changes necessary to make their regulations more practicable without impairment of the service.

4. More efficient delivery methods, and a discussion of the best methods employed in different localities and territories.

5. Improved methods of handling lives.

5. Improved methods of handling live-

Your prompt acknowledgment and acceptance of this appointment will be appreciated, and notice of the first meeting will be sent out just as soon as all ac-

ceptances are in.
Yours very truly,
CHARLES E. HERRICK,

Committee on Trade Extension.

The packers selected for this committee are as follows:

James S. Agar, President, Agar Packing Provision Company, Inc., Chicago, Illi-

J. A. Hawkinson, President, Allied Packers, Inc., Chicago, Illinois.
Wilson Arbogast, President, Arbogast & Bastian Company, Inc., Allentown, Penn-

Salvania.

F. Edson White, President, Armour and Company, Chicago, Illinois.

E. L. Flippen, President, Armstrong Packing Company, Dallas, Texas.

Frederic S. Snyder, President, Batchelder & Snyder Company, Poston Messachus.

der & Snyder Company, Boston, Massachu-

setts.
C. H. Ungerman, President, Birmingham
Packing Company, Birmingham, Alabama.
Joseph P. Murphy, Vice President, The
Blayney-Murphy Company, Denver, Colo-

T. Kenneth Boyd, President, Boyd, Lunham & Company, Chicago, Illinois.
B. G. Brennan, President, Brennan Packing Company, Chicago, Illinois.
Bayard C. Dickinson, General Manager, Louis Burk, Inc., Philadelphia, Pennsylvania.

vania.

Louis J. Burkhardt, President, Henry Burkhardt Packing Co., Dayton, Ohio. S. T. Nash, President, The Cleveland Provision Company, Cleveland, Ohio. T. Davis Hill, President, Corkran, Hill & Company, Inc., Baltimore, Maryland. Michael F. Cudahy, President, Cudahy Bros. Co., Cudahy, Wisconsin.

E. A. Cudahy, Jr., Vice President, The Cudahy Packing Company, Chicago, Illinois.

Jay E. Decker, President, Jacob E. Decker & Sons, Mason City, Iowa.
J. C. Dold, President, Jacob Dold Packing Company, Buffalo, New York.
Ernest S. Urwitz, General Manager, Dryfus Packing & Provision Company, LaFayette Indiana

Fayette, Indiana.

Geo. L. Franklin, President, Dunlevy-Franklin Company, Pittsburgh, Pennsylva-

nia.

Frank A. Hunter, President, East Side
Packing Company, East St. Louis, Illinois.
David G. Madden, Vice President, East
Tennessee Packing Company, Knoxville, Tennessee.

Morton Mannheimer, President, Evans-ville Packing Company, Evansville, Indi-

John J. Felin, President, John J. Felin Company, Inc., Philadelphia, Pennsylvania.

vania.

Fred Figge, President, Figge & Hutwelker Company, New York, N. Y.
E. A. Reinemann, President, Fried & Reinemann Packing Company, Pittsburgh,

Wm. O. Haas, President, Haas-Davis Packing Company, Mobile, Alabama.
T. W. Taliaferro, President, Hammond, Standish & Company, Detroit, Michigan. George L. Heil, President, Heil Packing Company, St. Louis, Missouri.
R. T. Keefe, President, Henneberry & Company, Arkansas City, Kansas.
Julius Wiederstein, President, John Hoffman's Sons Company, Cincinnati, Ohio.
A. C. Hoffman, President, A. C. Hoffman & Sons, Syracuse, New York.
Isaac Powers, Manager, Home Packing & Ice Company, Terre Haute, Indiana.
Geo. A. Hormel, President, Geo. A. Hormel & Company, Austin, Minnesota.
R. E. Paine, President, Houston Packing Company, Houston, Texas.

Company, Houston, Texas.
Patrick Brennan, President, Independent
Packing Company, Chicago, Illinois.
E. C. Merritt, Vice President, Indianapolis Abattoir Company, Indianapolis, In-

Fred T. Fuller, President, Iowa Packing

Company, Des Moines, Iowa.
Louis W. Kahn, President, E. Kahn's

Louis W. Kahn, President, E. Kahn's Sons Company, Cincinnati, Ohio. Michael A. Keane, President, T. T. Keane Company, Inc., Washington, D. C. W. R. Sinclair, Vice President, Kingan & Company, Indianapolis, Indiana. W. H. Gehrmann, President, Kohrs Packing Company, Davenport, Iowa. Otto Finkbeiner, President, Little Rock Packing Company, Little Rock, Arkansas. Karl M. Zaeh, Manager, Louisville Provision Company, Inc., Louisville, Kentucky. Myron McMillan, Secretary, J. T. McMillan Company, Inc., St. Paul, Minnesota. Oscar G. Mayer, Vice President, Oscar Mayer & Company, Inc., Chicago, Illinois. John Roberts, President, Miller & Hart, Chicago, Illinois.

Chicago, Illinois.

Jonn Roberts, President, Miller & Hart, Chicago, Illinois.

T. Henry Foster, President, John Morrell & Company, Ottumwa, Iowa.
Henry C. Muhs, President, Henry Muhs Company, Passaic, New Jersey.
Henry Neuhoff, President, Neuhoff Packing Company, Nashville, Tennessee.
G. Harvey Nuckolls, President, Nuckolls Packing Company, Pueblo, Colorado.
Jas. B. McCrea, President, Ohio Provision Company, Cleveland, Ohio.
C. H. Ogden, General Manager, Pittsburgh Provision and Packing Company, Pittsburgh, Pennsylvania.
John W. Rath, President, Rath Packing Company, Waterloo, Iowa.
Albert T. Rohe, Vice President, Rohe & Brother, New York, N. Y.
Gustav Bischoff, Jr., Vice President, St. Louis Independent Packing Company, St. Louis, Missouri.

Louis, Missouri.

Joseph Kurdle, Vice President, Wm. Schluderberg-T. J. Kurdle Co., Baltimore,

Joseph Kurdle, Vice President, Wm. Schluderberg-T. J. Kurdle Co., Baltimore, Maryland.

Howard R. Smith, President, Shafer & Company, Baltimore, Maryland.

R. S. Sinclair, President, T. M. Sinclair & Company, Ltd., Cedar Rapids, Iowa.

T. P. Breslin, President, Standard Packing Company, Inc., Los Angeles, California.

Frank J. Sullivan, President, Sullivan Packing Company, Detroit, Michigan.

G. F. Swift, Jr., Vice President, Swift & Company, Chicago, Illinois.

M. C. Teufel, President, Theurer-Norton Provision Co., Cleveland, Ohio.

Frederick A. Vogt, President, F. G. Vogt & Son, Inc., Philadelphia, Pennsylvania.

John S. Weaver, Lebanon, Pennsylvania.

C. J. Hooper, President, Western Meat Company, South San Francisco, California.

W. H. White, Jr., President, White Provision Company, Atlanta, Georgia.

Fred L. Wilson, Manager, Wilson Provision Company, Peeria, Illinois.

Thomas E. Wilson, President, Wilson & Company, Chicago, Illinois.

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"Long and Short" in Marketing Hogs and Bacon

Story That Hog Grading Has Recently Revealed in Canada-How Canadian Bacon Is Being Marketed at Present in Great Britain

Why is the bacon-type hog preferred by meat manufacturers to the plump, fullbodied hog of the same weight? The reasons for this preference do not yet seem to have been clearly grasped by the majority of producers. This delay in understanding that there are good reasons, not of theorists, but of hard-headed business men who measure results by dollars and cents, is also delaying the proper expansion of the Canadian hog industry, according to the Industrial and Development

Weight of side 64 lbs.; length from aitch bone know to neck 37½ inches, showing the long "middle cut" desired in the British trade.

Council of Canadian Meat Packers. Some vitally important conclusions on hog and bacon grading have been developed by this enterprising organization and have been summarized in the following article which will be of interest to all packers:

The illustrations accompanying this arti-The illustrations accompanying this article make it clear how hogs, weighing alive about 200 lbs. may yield a product utterly different. One of the "Wiltshire sides" (on the left) is almost perfect. It has the right length so that when the ham and shoulder are off the "middle cut" contains the proper length and the side has throughout the nice balance that will make up attractively for retailers. It also has the desired layering of lean-and-fat has the desired layering of lean-and-fat

and the back fat, about one and a quarter inches wide, is even from end to end. This side was from a "select" hog—properly so called.

Contrast this with the side on the right. The hog here was not a "select" in grade but it was chosen to illustrate the points of difference. Note the extreme shortness, the heavy back fat, and the gross form of ham and shoulder. Each of these faults singly would put the product off the English market for "Wiltshire" bacon.

Bacon Hog Yields More Meat.

How much superior the bacon-type hog How much superior the bacon-type hog is in yield of meat to the thick fat hog, was graphically shown during a recent course of instruction in marketing to young farmers at an Ontario packing plant. Two carcasses of hogs of different grades were taken and prepared for the market, each step being seen by and fully explained to the keenly interested young men. The yield or result in meat and waste was afterwards put into table form for their information. The table was as follows:

Live Weight:	
Bacon type	186 lbs.
Fat type	163 lbs.
Dressed Weight:	
Bacon type	140 lbs.
Fat type	125 lbs.
Trimmings (excluding head an	d feet):
Bacon type	12 lbs.
Fat type	221/2 lbs.

"Trimmings" are the odds and ends which must be cut off hams, shoulders and "middles" to round them off and generally to shape the meat cuts for the retail trade; they are of very small value when taken off.

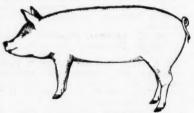
The percentage of returns are instruc-tive. The dressed carcass of the fat hog showed a little higher rate than the bacon showed a little higher rate than the bacon type, 76½ per cent to 75 per cent, but in every step afterwards the bacon type was superior. For instance, though a bigger hog, the bacon type showed a 12-lb. loss or 8.5 per cent, as against almost twice as much, 22½ lbs., or 18 per cent in the fat hog. In untrimmed loins the percentages were 13.5 for the bacon hog and 12.8 for the fat type; trimmed loins 10.7 per cent for the bacon to only 7.2 per cent for the fat hog. cent for the fat hog.

All through the bacon type was better in its meat yield.

If the first producer does not supply what the ultimate consumer demands, it is illogical to expect the intermediate packer to pay a first-grade price for it.

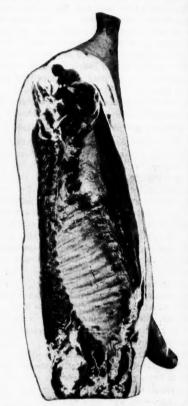
More Select Danish Hogs.

Compare the Canadian official record to date of 11.1 per cent of "selects" among the hogs marketed with the fact that fully 85 per cent of the Danish hogs grade "select," i.e., suitable for export to Great Britain. One then begins to touch the fringe of our problem.



THE ARISTOCRAT OF HOGS The type that yields high-class export bacon.

It is becoming fairly well known in Canada that it exports bacon to England in the form of "Wiltshire sides." Unlike the names of "Yorkshire" and "Berkshire," the term "Wiltshire" applies not to the breed of live animal, but to the slaugh-



Weight of side 60 lbs.; length from aitch bone knob to neck 32 inches, showing short "middle cut" not accepted by British buyers.

tered and dressed product. In fact, it is only a technical term for the style of dressing the meat. It is one-half of the dressed carcass without the head and feet. From a butcher's standpoint there are other details, but that is the broadest defi-

Almost any hog could, of course, be cut "Wiltshire" style, but in practice in Canada only those hogs suitable for export to Great Britain are so treated. Our domestic trade calls for quite different dress-

In the export trade there are two main classes of "Wiltshire sides," of which one has two subdivisions:

- (a) leanest
- (b) prime.

(b) prime.

At first sight these terms offer a little difficulty because they do not quite accord with our common ideas of what is best in meat animals. Prime, for instance, in a bullock would be first-class, while in a "Wiltshire side" it has come to mean stout or fat and therefore not desirable, and "leanest" for cattle would be at the foot of the scale. These terms have grown out of trade custom in England and we must accept them as they are.

Sections of Bacon Classes.

But within the two main classes there

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are several sections. These are based upon the weights of the sides. Each section has a five-pound range. Acceptable market weight is a most important point in the system of selling export bacon. The most desirable weights run from 50 to 55 lbs., 55 to 60 lbs., and 60 to 65 lbs. "Wiltshire sides" 40 to 50 lbs., 65 within the double class of leanest-lean. Yet this is not invariably so. A marked scarcity in one section of weights or one class of bacon occasionally sends the price up just as an occasional surplus sweeps the price down. Leanest-lean under 50 lbs. and over 65 lbs. is discriminated against price down. Leanest-lean under 50 lbs. and over 65 lbs. is discriminated against in price and, if under 45 lbs., or over 75 lbs., suffers a sharp cut. Prime, excepting in periods of exceptional scarcity, takes second price but when over 75 lbs. always suffers severely in price.

Trade Names Not Rigid Grades.

Thus it will be seen that the trade names, leanest, lean and prime, are really



"Wiltshire side" of a good type bacon hog spoiled by over-fattening. Notice the thick layers of fat on back and belly and within the carcass. An "out-weight."

convenient technical terms rather than convenient technical terms rather than rigid grades of bacon. A bacon-type hog, properly fed and finished to 210 lbs., will get into leanest or lean and command the highest price, while a hog of fat type, no matter how carefully fed, will generally grade into prime, even though weighing only 180 lbs. grade into only 180 lbs.

Besides the specific points there is a certain interlayering of lean and fat that is essential and, quite as important as anything, there must be, in both lean and anything, there must be, in both lean and fat, that hard thing to define that is known as "quality." The fat, for instance, must be of a nice, delicate, white color and be firm in texture. In the lean the fiber must be fine and tender.

As a hog grows older the delicacy and fineness of texture are lost. For that reason if a hog can be marketed at six

or seven months the more likely is it to or seven months the more likely is it to furnish what the packer in turn must sup-ply to the English bacon curer. Properly grown a hog then will have attained the needed 200 lbs. to yield the best grade, range and quality "Wiltshire."

Preparing Bacon for Export.

How are "Wiltshire sides" prepared?
When a hog reaches the packing plant it is at once sorted into either the scalder class, i. e., for the domestic trade, or into the singer class, i. e., for the export trade. The latter name is used because after the hog has been scalded and dehaired by machine in the usual way, it is drawn up through a large singeing cylinder, within which are numerous high power flame jets.

The process not only singes off any

The process not only singes off any remaining hairs, but it materially affects the quality of the rind. This is necessary for our export trade because in England it is a widespread custom to leave the rind on bacon until it is actually served on the plate, partly because there is less waste and partly because the practice is thought to preserve the juices and flavor of the bacon better. of the bacon better.

After the hogs are singed they are thoroughly cleaned before being examined minutely by Dominion Government inspectors, skilled men who are in every sense independent of the packing company in whose premises they work. They see to it that the product passed is perfectly free of disease and is quite fit for human food. Only such product may bear the stamp, "Canada Approved."

Any carcass or part of a carcass show.

"Canada Approved."

Any carcass or part of a carcass showing signs of being unfit is at once taken away and destroyed so that it cannot be consumed. The approved carcasses are split down the back into halves. Then they are sent to the cooling room to be chilled, a process that takes from 48 to 72 hours. The half-carcasses are then passed over the cutting tables, the head and feet and a few bones and other parts removed and then only does the product technically take the form of "Wiltshire sides."

Sorting of Wiltshires.

The sides thus trimmed go to the pick-The sides thus trimmed go to the pickling cellars, to remain there until cured. On being taken out the "Wiltshire" sides are sorted—of course irrespective of any particular breed of hog from which they may have been cut—into the three main classes of leanest, lean and prime; and each of these classes is again sub-sorted according to weight range. They are then drained for about 36 hours and after a further inspection are packed for overseas shipment. shipment.

snipment.

The standard packing is 12 to a box, each box having only the same class, whether leanest, lean or prime, and being limited to the same weight range. Grade and weight are marked on the outside of the box so that when received in England by the packer's agent he knows precisely what it contains. Once in England the "Wiltshire sides" are sold to jobbers and bacon curers who pickle, smoke and otherwise prepare them for the retail trade.

That is practically the whole story of the processing of Canadian export bacon.

Waste in a Hog.

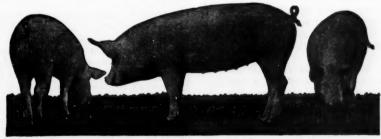
Twenty-two per cent by weight of every live hog goes as waste when it is slaughtered. In other words, 22 cents out of every dollar paid for a living hog are for something which cannot be used.



"Wiltshire side" of a good type hog under-finished. Note the thin strips of fat. The side was flabby through lack of finish. Impossible to export.

Nor is this the whole story. Much of the remainder is inedible. The saleable portions of a hog give the following aver-age yield:

Per c	ent.
Back bacon	12
Breakfast bacon	14
Hams	19
Boneless rolled shoulders	18
Lard	12
Trimmings and inedible parts	25
	100



EXPORT BACON STANDARDS-TYPE OF HOG DESIRED.

To yield the best "Wiltshire side" a hog should be of the type shown. Jowl and shoulder light and smooth; back from neck to tall evenly fleshed; side long, medium depth, dropping straight from back; ham full; good general finish, no excess fat; weight 160 lbs. to 210 lbs. to 220 lbs. at the farm.)

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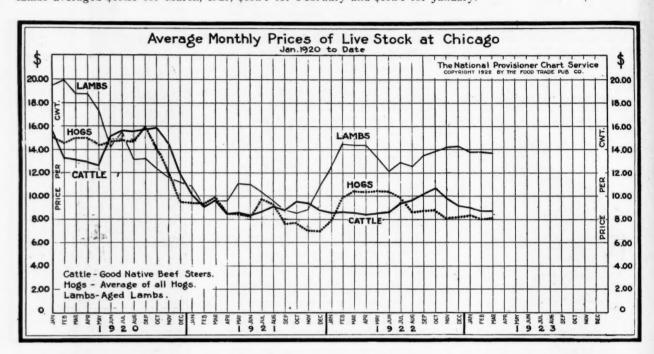
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Hog Prices Went Up During March While Lamb Declined

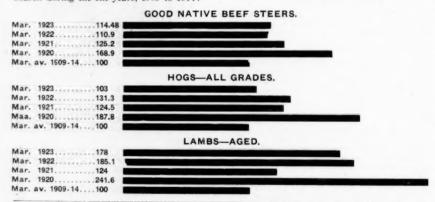
During the month of March, 1923, the prices of hogs increased somewhat. On the other hand cattle prices held steady at the same figure. Lambs dropped a little in price for the same period.

Of the individual prices, hogs averaged \$8.20 compared with \$8.05 for February, and \$8.35 for January. Good native steers averaged \$8.85 for March, 1923, compared with \$8.85 for February and \$9.15 for January. Aged lambs averaged \$13.85 for March, 1923, \$13.90 for February and \$13.90 for January.



Livestock Prices at Chicago for March Compared to Six-Year Pre-War Average

Showing percentage of prices for March, 1923, 1922, 1921, and 1920, to the average of March during the six years, 1909 to 1914:



MARCH MEAT AT LOW PRICE LEVEL.

The wholesale prices of practically all kinds of meat have continued at relatively low levels during the month just closed, and the volume of consumption has been again large, according to a review for March by the Institute of American Meat Packers.

The Easter demand for hams was considerably in excess of that of a year ago, and wholesale prices improved somewhat, but still remain about a third lower than at this time last year. Bacon and picnics likewise have been in good demand. The wholesale prices of these products also merit the attention of consumers. Picnics, for example, are selling in the wholesale

markets about 40 per cent below the price of hams, which themselves are wholesaling cheaply

A probable reason for the large volume of meat consumption is indicated by recent figures on retail prices from the U.S. Bureau of Labor Statistics which show that, as compared with 1913, meats continue to sell several points below the average of all articles of food combined as listed by the Bureau.

There was a good trade in lard and fat backs during March with Germany and other Continental countries, especially especially during the first part of the month. the latter part of the month, however, the demand from abroad for lard slackened somewhat. It is reported that stocks of

lard on the Continent are rather heavy.
Prices of meats in England have n been satisfactory, and, although they have shown some improvement, are still below parity with values here. Lard prices also have continued below American values. As a consequence, trade with England has been of small proportions. There was a slight renewal of the demand for hams, bellies and lard, but the trade seems to feel that this renewal may be only ton. feel that this renewal may be only temporary. The general opinion is that Danish killing will continue heavy.

Fresh Pork Good But Low Prices.

The trade in fresh pork was very good, but there was so much product on the market that price levels remained unsatisfactory. Pork loins and some other fresh cuts recovered slightly, but the prices of butts declined.

has been mentioned, the trade in smoked meats, particularly regular hams, vas good. Some packers report that an excellent trade for skinned hams has tended to keep the stocks of the heavier grades of hams from increasing, although other packers state that the heavier hams have been dragging somewhat. At present, from the viewpoint of the consumer, the wholesale prices of practically all grades of hams are very attractive.

Dry salt meats have been in good demand, the trade exceeding that of a year

Lard prices rallied somewhat during the middle of the month, but then declined, and at the end of the month were lower than at the beginning. With the slacken-ing of lard exports toward the end of the month, stocks increased somewhat.

Hog prices remained well above \$8 per 100 pounds during the month, regardless of the fact that receipts continued heavy. Receipts at twenty leading markets for the three months ending with March were approximately 30 per cent in excess of those for the same period a year ago.

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What Effective Meat Distribution Means

Packing Industry Lectures-No. 8

"If the world turned vegetarian, the hay crop-now one of the most valuable agricultural products-would be practically worthless," according to F. Edson White of Chicago, who spoke Tuesday evening, April 3, as a representative of the Institute of American Meat Packers, at Mandel Hall, University of Chicago, before about 600 men from the packing industry.

Mr. White lectured on "Distribution of Meat Products." He gave brief consideration to other significant trends and tendencies within the industry, however. The occasion was that of the eighth and concluding lecture of a series on the packing industry, conducted under the joint auspices of the Institute of American Meat Packers and the School of Commerce and Administration. University of Chicago

Much the same is true of the corn crop, "Much the same is true of the corn crop, which in dollars and cents is the most valuable crop produced in the United States," Mr. White continued in part. "Something like 90 per cent. of the corn crop is fed to meat animals and thus indirectly to humans. Meat animals can turn these crops into food for humans and yet leave in the soil nearly 100 per cent. of its natural fertility. Meat is a concentrated food and meat animals apparently were invented by nature to utilize and turn into food for man those products of the fields and farms which man does not want or cannot really use.

Meat Eating and Prosperity.

'Per capita consumption of meat has As a nation there is little prospect that we will ever eat too much meat. In 1922 the average American consumed 149.7 pounds average American consumed 149.7 pounds of meat per annum. In 1921 the figure was 143.2. (Editor's Note: These figures do not include lard.) In the days of great agricultural prosperity twenty years ago, per capita consumption was about 180 pounds. It is not my purpose now to discuss the reasons for the decreased consumption of sections of the decreased consumptions of the decreased consumption sumption of meat, but I do think it permis sible to point out that success in efforts to side to point out that success in efforts to increase meat consumption will be reflected in greater prosperity on the farms and throughout the country—prosperity for the moment and also prosperity for the future, growing out of properly balanced agriculture looking toward the maintenance of coil fortility.

agriculture looking toward the mainte-nance of soil fertility.

"Insofar as the distribution afforded by the meat packing industry aids the farm-ers of specializing regions to turn their various crops into food for humans, it is a real factor in assuring national prosper-ity. If there were no well established meat packing industry capable of distributing properly the products of live stock in the great quantities in which they are produced, the foundation of our agriculture

duced, the foundation of our agriculture would be swept away.

"Adequate distribution of meats over the country and over the seasons has had, and will continue to have, a most important bearing on the nation's agriculture. The greatness of the United States is founded on agriculture, and maintenance of soil fertility is essential to the nation's prosperity. Without question, live stock is the biggest factor in the maintenance of fertinty." the maintenance of fertinty.

What Meat Distribution Means

In discussing the importance to produc-

In discussing the importance to produc-ers and consumers of effective distribution of meats, Mr. White said in part: "If meat products had to be marketed to the consumer as they are produced, there would be severe gluts and corresponding low prices for raw materials during a large part of the year and severe shortages and

consequent high prices during the rest of the year. By far the heaviest marketing of live stock comes in the colder months of the year, due largely to the fact that the animals cannot be marketed until they have consumed the crops of the growing season. On the other hand, the heaviest consumption of meat products is likely to come in the hot months when labor is most fully employed and energy demands in the diet are greatest.



F. EDSON WHITE.

"The manner in which the cold storage houses and the freezers are used today to prevent disastrous market gluts stands out in contrast to the distributive machinery of one or two generations past. There was then no refrigeration and meat had to be eaten immediately after the slaughter of the live animals or else the product had

of the live animals or else the product had to be pickled or otherwise cured. There are many in the industry who can remember in their boyhood when meat packing was largely a winter job.

"In fact, the industry got its name from that day because meat was then really packed. Only territory immediately adjacent to packing houses could get fresh meat and that portion which could not be disposed of was pickled or salted, barreled and piled hill-high on the prairies adjacent to the packing plants. There the product remained until the summer consuming season arrived and the product was distributed. remained until the summer consuming season arrived and the product was distributed by the transportation methods then available. In the 'good old days' of meat packing by far the bulk of the meat consumed was cured product, and those who were able to get fresh meat the year around were in exceptionally fortunate circumstances. cumstances.

Wastes Done Away With.

"That was a day of meat wastes which rnat was a day of meat wastes which we could not tolerate now. Hearts, livers and various other edible products which were produced in much greater amount than could be consumed locally and for than could be consumed locally and for which there was no demand in the cured state, were simply dumped into the river, fed to hogs, buried or incinerated. Today these same products are refrigerated and handled so satisfactorily that none of them have to be wasted and all are available in all sections of the country at all seasons of all sections of the country at all seasons of

Referring at another point to the effect of fluctuations in demand, Mr. White said:
"A sudden hot wave in the East knocks the bottom out of the beef market. Housewives do not want roasts and steaks when the thermometer is around blood heat.

Sudden arrivals of well laden fishing boats at big eastern seaports usually affect the sale of meat. Thanksgiving and Christ-mas poultry have rulned many a well-planned beef campaign. The opening of the game season has often done likewise though I must confess that my success as a hunter never tended to put any meat packer out of business. Fast days and feast days affect the demand for meat and there are various other factors insignifi-cant in themselves but powerful enough in combination to change materially the demand for meat from day to day. This fluctuation in demand must be reckoned with in the daily management of the business."

GERMANS NEED FOREIGN MEATS.

Heavy importations of meat into Germany are indicated by exhaustive investigations just completed in that country.

Germany's meat production before the war was not sufficient to meet domestic requirements, despite extensive importation of concentrated animal feed. The sitvation today is much more unfavorable, for Germany has lost 15 per cent of her stockraising territory, while her population has decreased only 7 per cent. The importation of stock feed has materially decreased owing to the continued depreciation of the German currency and the importation of meat will be indispensable for a long time to come to bring up to the proper standard the feeding of the German people, is the conclusion furnished by the Department of Commerce, by Mr. Charles B. Dyar, of the American Consulate at Stettin, Germany, based upon investigations made by the Hygienic Institute of the Hanover Veterinary College.

"The pronounced decline of the consumption of meat in Germany is of greater hygienic and economic importance for the future and greater productivity cannot be expected of the German people unless the standard of living is elevated," Mr. Dyar standard of living is elevated," Mr. Dyar states. "Director Cuno of the Hamburg-American Line, now the German Chanceller, pointed out recently that the importation of large quantities of frozen meat is not feasible for Germany from the economic point of view unless the meat is carried in German ships. Germany has at present only six steamers, with a total meat storage capacity of 3,000 tons for this purpose, while England possesses some 280 steamers with a total cold storage capacity of 600,000 tons. Steamers of the kind needed are very expensive to build on account of the elaborate refrigerating equip count of the elaborate refrigerating equipment necessary and the German shippers can scarcely take the risk of having them tuilt unless assured of the continued im-portation of frozen meat for years to come, and everything now indicates that this will

JAPANESE MEAT IMPORTS.

In 1922 Japan imported 532,033 kins of butter (1.3227 pounds), according to a report to the U.S. Department of Commerce, by far the larger portion of this butter coming from Australia and Canada, the United States furnishing less than 10 per cent of this total.

Of the 25,154 kins of hams and bacon imported into Japan in 1922, the United States furnished over 35 per cent of the total, with Kwantung, Great Britain, Canada and Australia furnishing practically the entire remainder. China, however, led in the exports of fresh beef to Japan, supplying over 80 per cent of the 267,739 piculs imported.

Packers' and Retailers' Delivery Problems

(EDITOR'S NOTE.—This department will be devoted to items and discussions of interest to packers and retailers in connection with their delivery and local transportation problems. Readers are invited to use this column for the obtaining of information on these subjects, and for their comments and criticisms on what appears here.)

What's Wrong with Packer Deliveries?

Bright, clean, attractive delivery equipment is in daily use by America's largest manufacturing industry in the distribution of its product. Many of the packers' trucks are worth their operating cost for advertising value alone. Furthermore, their costs are kept at as small a figure as careful supervision is able to bring

Under present-day conditions economy is of paramount importance in the packing industry. Consequently no policy is considered which does not contemplate the most rigid thrift. And within reasonable limits this program of economical delivery is being carried out successfully. The industry's achievements in this direction are in many respects remarkable.

No Theorists Here.

The packinghouse superintendent of transportation is a practical man. His ideas are based upon experience rather than theory. He has gotten this experience first hand, and can decide many questions off-hand under circumstances where months of theoretical work would be required to arrive at the same conclusion.

New-fangled ideas do not appeal to this man. "Try your experiments elsewhere," he says, "and if they prove successful we'll adopt them. Meanwhile we play safe and save our money."

The delivery systems of the packers have been pictured variously as bottomless pits of needless expenditure, or as ravenous ogres devouring packinghouse profits. Is either a true picture of the situation?

Packers Practice Thrift.

Packers give their customers good service in the way of deliveries. That is necessary, competition requires it.

Packers, furthermore, keep their delivery costs pared as close as they know how. That also is inevitable, because the industry could not exist if it chose to be extravagant.

Not only is the packer's delivery program on a solid basis, but the industry has in some ways occupied a position of leadership. The committee on local deliveries of the Institute of American Meat Packers has attracted much attention because of its progressive ideas, and its ac-

tivity in the field of improved delivery methods.

"What more could be asked?" you inquire.

"Always room for improvement," is the

More Co-operation Needed.

Every packer has some favorite phase of delivery work in which his organization is particularly efficient. When we succeed in putting these various ideas together we will have a millenium in transportation methods.

Each packer has his own method of keeping his delivery cost records. Some of these methods are excellent, but 90 per cent of them are fragmentary in their scope.

Some packers are using horses for motor truck work. Others are using motors for horse work. Some are employing gasoline truck methods on electric trucks, and others are treating gasoline trucks as though they were electrics.

The Best Methods Pay.

The last word on transportation methods will not be spoken until our horses, our trucks and ourselves have long since become dust. But the transportation man who today makes use of ideas which his competitors will not recognize until next year is destined to have wealth, fame or both.

Closer co-operation and a more alert lookout for modern developments and improved methods and practices will bring packer delivery service to a new high level of efficiency within the next few years.

HORSE, ELECTRIC OR GASOLINE?

"In the delivery business, as elsewhere, you can't get a gold dollar for ninety cents. You get just about what you pay for."

That is the idea of E. A. Stedman, vicepresident of the American Railway Express Company, as expressed in his paper on "Relative Fields and Uses of the Horse, Electric and Gasoline Truck," given before the International Delivery Association at the annual convention of this organization held at the Hotel La Salle, Chicago, on March 12-15.

"Horses have very low costs," continued Mr. Stedman. "Electrics give greater speed and greater mileage at a somewhat higher cost. Gasoline trucks are capable of even more speed, and if necessary give very greatly increased mileage, and their costs are still higher to pay for these advantages."

In speaking of his policy regarding new equipment, Mr. Stedman added that they had purchased no horses since November, 1921. During that period several hundred motor vehicles were purchased, both electric and gasoline.

"The Horse, Electric and Gasoline Truck," was the subject of a paper read by N. W. Thompson, general superintendent of The Fair, Chicago. Mr. Thompson based his discussion upon an audit of The Fair's books made at the expense of the Horse Association of America, and concluded that horses were by far the most economical for city delivery work.

Comparison Is Challenged.

A possible argument loomed when an electric truck man inquired as to the fairness of such a comparison of horses and trucks on a per day basis, with no mileage records, and with the truck costs based upon the bulked expenses of "seventeen electrics and four gasoline trucks."

The representative of The Fair who was discussing the paper stood by the comparison, and when the electric truck man did not push the matter further, he went on to say that for those concerns who found that their class of work demanded motor vehicles, electrics were the most reliable and satisfactory for route delivery.

Some voting followed to determine whether the trend was toward more or fewer horses. Although the general movement was found to be in the direction of more mechanical equipment, several operators went on record as increasing their horse equipment. One wittily remarked:

"We were running our motor trucks with horses last winter!"

SUSPENDS NEW STOCKYARDS RATES.

Suspension of tariffs increasing certain rates and charges of the East Tennessee Stockyards, Knoxville, the Newark Stockyards Company, Newark, N. J., and the Scattle Union Stockyards Company, Seattle, Wash., has been announced by the U. S. Packers & Stockyards Administration.

In the case of the East Tenessee Stockyards Company the suspension was on the ground that the proposed increases of 28 cents a bushel for corn, 15 cents a bushel for oats, 50 cents a hundred pounds for bran, shorts, and cottonseed meal did not appear to be justified. A hearing has been ordered for April 11 in the Federal Court rocms, Knoxville.

The suspension order against the Newark Stockyards Company resulted from a proposed increase of 25 cents a bushel for corn and 25 cents a hundred pounds for hay, both of which were thought to be unreasonable and not warranted at this time. The hearing has been set for April 17 in the Federal Court rooms, Newark.

The Seattle Union Stockyards Company

The Seattle Union Stockyards Company had announced new charges for both yardage and feed.

The proposed increases in yardage charges on hogs of 3 cents a head, on sheep and goats of 1 cent a head, on horses and mules of 10 cents a head, and 25 cents a hundred pounds for alfalfa hay appeared to be unreasonable. Further objection was made to proposed additional charges for services which are now rendered as a part of the yardage service. These charges, which it is proposed to assess against all livestock bought on these yards and loaded out through truck chutes, are as follows: 15 cents a head on cattle, 10 cents on calves, 4 cents on hogs, 3 cents on sheep.

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The Plain Truth

Let's do away with fancy words and face the plain, naked truth.

What is needed most in the packinghouse? It's "EDUCATION!"

Why?

Because there are hundreds of the smaller packers today who operate plants without knowing exactly the yields and returns of a good many of their products.

It is only the large plants which can have laboratories and testing and efficiency engineers. But the owner of the smaller packing plant can know just as much about the packing business-if he only wants to know it.

How? It's only by comparison—comparing his results with those obtained by operators in the more efficient plants.

Let's cite an example which will hit your pocketbook: What is your shrinkage on hides? Can you give the figures exactly? How do you know that you are not losing two, three or even five per cent on your shrinkage? What does it mean to you in dollars and cents if you lose only two per cent on your shrinkage?

Information like this is worth thousands of dollars to any packer, and it is only ONE good reason why "THE PACKERS' ENCYCLOPEDIA" should be on your desk.

> We may all be smart, but no one knows it all, and the experience of many people in the business can always help us.

Better order your copy now before it is too late. Chapter One:—CATTLE
Breeds of Cattle
Market Classes and Grades of
Cattle and Calves
Dressing Percentages of Cattle

Cattle Dressing Percentage the Beef Slaughtering Beef Cooling Beef Grading Beef Loading Beer Loading Beer for Expert Beer Loading and Bening Flate Beer Cutting and Bening Flate Beer Curing Barreled Beer Manufacture of Dried Beer Manufacture of Dried Beer Handling Beer Offal Handling Miscellaneous Meats Manufacture of Beer Extract Manufacture of Deer Extract Manufacture of Oleo Products Tallow Handling of Hides

Handling of Hides
Chapter Two:—HOGS
Breeds of Hogs
Market Classes and Grades of
Hogs
Dressing Yields of Hogs
Hog Killing Operations
Hog Cooling
Shipper Pigs
Pork Cuts
Curing Pork Cuts
Smokehouse Operation
Ham Boning and Cooking
Lard Manufacture
Hog Casings
Edible Hog Offal or Miscellanceus Meats
Preparation of Pigs Feet

Chapter Three:—SMALL
STOCK
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of Sheep and Lambs
Sheep Killing
Sheep Dressing
Sheep Casings
Casings from Calves and
Yearlings

Chapter Four:—INEDIBLE BY-PRODUCTS Y-PRODUCTS
Inedible Tank House
Blood and Tankage Yields
Tankage Preparation
Digester Tankage
Tallow and Grease Redning
Manufacture of Glue
Bones, Horns and Hoots
Handling Hog Hair
Catch Hasins
Cost and Return on ByProducts

Chapter Five:—MISCELLA-NEOUS Sausage Manufacture Meat Canning Animal Glands and Their

Chapter Six:-VEGETABLE IILS
Vegetable Oil Refining
Compound Manufacture
Winter Oil
Hydrogenation of Oils and
Fats
Manufacture of Margarin



The Packers' Encyclopedia

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AF

TRADE GLEANINGS

The Empire Fertilizer Co. is planning to establish a plant at Oswego, N. Y.

Swift & Company is building a new produce packing plant at Columbus, Neb.

The Kuykendal Chemical Co., Columbia, S. C., has increased its capital from \$50. 000 to \$100,000.

Iverson & Burdett, Uvalde, Tex., are planning to erect a meat packing plant to cost about \$30,000.

The city of St. Cloud, Minn., is inter-sted in establishing a poultry packing and egg plant there.

The Kirsten Packing Co.'s plant at Walnut Creek, Cal., has been soid to L. F. Helmond and others.

The Fort Smith Cotton Oil Co., Fort Smith, Ark., will erect a plant in the near future.

The Milner Packing Co., Frankfort, Ind., is going to carry out some extensive improvements in the near future.

S. Swindells & Son, New York City, has been incorporated with a capital of \$300,000 by Ralph E. Renno and others.

The McLennan County Livestock Association, Texas, is considering the erection of public abattoirs at several points.

G. F. Hoffman, Gadsden, Ala., has bought ne plant of the Standard Chemical at Summerville, Ga., and will operate it.

The Marker Chemical Co., Fairmont, W. a., has been incorporated with a capital of \$1,000,000 by R. L. Long and others.

The Standard Packing Co., Pittsburgh, Pa., has been incorporated with a capital of \$300,000 by R. B. G. Haughton, Harry J. Thomas and others.

The Cuff Packing & Provision Co., Buffalo, N. Y., has been incorporated by James J. Cuff, Joseph P. Morgan and George E. Keller, with a capital of \$500,000, to carry on a meat packing and cold storage busi-

The Frederick County Products, Inc., was incorporated for \$250,000 par value prefered stock and 3,000 shares of common stock without par value. The company leases, and has an option to buy, the plant formerly operated by the J. A. Whitfield Co.

The Eckert Packing Co., Henderson, Ky., held a reception and food exhibit at its packing plant on South Green street on April 4 which attracted wide attention. Customers and guests, including hundreds of consumers, reached the plant from the

street car line in automobiles provided by the company, and luncheon was served at the plant to all visitors. The exhibit of Eckert meat products was an extensive and appetizing one, and served to boost the "eat more meat" campaign in that section.

The Douglas-Pectin Packing Corpora-tion, Rochester, N. Y., has been organized as a result of a consolidation. The companies concerned in the merger are the Douglas Packing Co. and the Pectin Sales Co., both of Rochester, and the Douglas Packing Co., Ltd., of Coburg, Canada.

Officers of the new company are: President, Robert Douglas; vice-president, Charles Douglas; vice-president, and treas.

Charles Douglas; vice-president, Charles Douglas; vice-president and treas-urer, Watkin W. Kneath; secretary, Earl J. Neville; assistant treasurer, John J. Clingen; directors, besides the foregoing, W. A. Bender, Fairport; R. A. Mohan, Cobourg; John R. Beach, Fairport; George H. Harris, Rochester; M. S. Pratt, London, England, and John F. Prow, New York.

HOW BEST TO HANDLE LIVESTOCK.

To acquaint stockyard and packinghouse employes with the best methods of handling livestock was the object of a series of meetings held on April 4, 5, and 6 at the Saddle and Sirloin Club, Chicago, under the auspices of the Committee on Livestock Handling Losses of the Institute of American Meat Packers. These meetings were attended by large numbers of employes and department heads of the various meat packing companies at Chicago: by employes and heads of commission firms, and by stockyards workers and officials.

Pointing out that the amount of beef and pork rendered into inedible product during the last year because of bruises incurred in bringing animals from farms to packing plants would have provided approximately a quarter of a million people with meat for a year, R. W. Carter. of Chicago, chairman of the committee, asserted that the majority of these loses could be avoided if more care were exercised in the handling of animals while they are on the farms and from the time

they are ready for market until they reach the packing plants.

"Bruised meat cannot be used as food,"
Mr. Carter said in part, "and every pound
of meat tanked as inedible product means
a waste that is felt by every factor in the
livestock and meat industry, from the

producer to the consumer.
"Clubs, whips, prod poles, etc., should never be used on cattle, hogs, or other animals. These instruments may give the

animals. These instruments may give the animals more speed, but they also cause costly bruises and other injuries.

"Livestock should be loaded and unloaded slowly and carefully. Excitement should be avoided, and the animals should

not be beaten or bruised.

"In the case of fat animals in transit, "In the case of fat animals in transit, much death loss can be avoided by handling the animals quietly and carefully before loading them on the cars. Shippers should bear in mind also that overfeeding just before loading and overcrowding in the cars are likely to cause death.

Should Examine Cars.

"Shippers should examine carefully the cars furnished for the shipment of their livestock. They should be sure that door restock. They should be sure that door fastenings, floor patchings, etc., are in acceptable condition, and that no nails, splinters, bolts, or other objects on which the animals might injure themselves project from the sides or floor of the car, and should insist that their livestock be

and should insist that their investock be placed in a clean car.

"They also should insist that the cars furnished for their livestock be bedded with hay or straw in cold weather, or with sand in summer. Such materials as cinders, rock dust, and coal slack never should be used as hedding.

"Loose boards, nails, sharp corners, posts, and other objects on which animals might bruise or injure themselves, should

be removed from barns, pens, and fences."
To illustrate some of the points mentioned in his address, Mr. Carter used a tioned in his address, Mr. Carter used a motion picture film, "Livestock Losses and How to Reduce Them," produced by the Institute of American Meat Packers for the purpose of showing the causes and results of many of the injuries incurred in bringing livestock from the farms to the packing plants and giving practical con-

bringing livestock from the farms to the packing plants and giving practical, constructive suggestions for the proper handling of the various classes of animals.

The motion picture film was supplemented by exhibits of bruised meats and scored hides and by lantern slides shown by Dr. W. J. Embree, chief veterinarian of the Western Weighing and Inspection Bureau, who discussed briefly the avoidance of loss in transit.

There Is Money in Tankwater

Save it by boiling down in a Swenson Evaporator. The fertilizer recovered will pay for the machinery required during the first year and after that net big profits on every tank discharged

A simple process-boils with exhaust steam. Repairs practically negligible. Better investigate.

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POBATORS - any capacity for any liquor Pulp Mill Machinery - Continuous Crystallizers Beet Sugar Equipment - Chemical Machinery

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THE NATIONAL PROVISIONER

Chicago and New York

Official Organ Institute of American Meat Packers and the American Meat Packers' Trade and Supply Association

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PAUL I. ALDRICH, Editor and Manager.
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Correspondence on all subjects of practical interest to our readers is cordially invited.

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Subscribers should notify us by letter be-fore their subscriptions expire as to whether they wish to continue for another year, as we cannot recognize any notice to discontinue except by letter.

TERMS OF SUBSCRIPTION INVARIABLY IN ADVANCE, POSTAGE PREPAID.

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Subscribers to THE NATIONAL PROVISIONER in foreign countries should remember that remittances for subscriptions must take account of the difference in exchange, and must in every case represent \$5.00 in United States money. Compliance with this requirement will save unnecessary correspond-

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Ocean Conference Trusts

The Continental Conference has announced an increase in the provision rates from North Atlantic ports to Continental European ports of 71/2 cents per 100 pounds, and on canned goods an increase of 7 cents, both effective April 1. This advance comes at a time when Americas exporters were just beginning to feel the revival of business on the Continent, and will result in a further set-back to our foreign trade.

This conference is one of several "marine trusts" whose sole purpose-judging from results-is to keep ocean rates at the highest possible point, and to do everything possible to handicap American industries.

The North Atlantic-United Kingdom Conference plans on an increase of 5 cents per 100 pounds in the rates to United Kingdom ports, effective July 1, 1923.

As the result of negotiations with nonconference lines American shippers succeeded in getting a reduction of the high conference rates that had been held in effect since the war. Now that our exports to United Kingdom ports show indications of revival the trust directors hasten to collect their "pound of flesh." The real sufferer-the American livestock producerwill be thus deprived of this outlet for his

These conferences openly meet in New York City and one of their most ardent supporters is a man who is on the government payroll. Press dispatches have frequently mentioned that he was largely instrumental in "averting threatened rate wars."

Canada is after these conference gentlemen, and America should take steps to break up this arrangement. The recommendations made to the Sixty-third Congress as a result of the congressional investigation which began in 1912 are still worthy of consideration. The United States government cannot continue in the inconsistent attitude of requiring competition between industries and individuals and stifling competition between ocean

If "conferences" are vital to the ocean carriers, it is equally important that our shippers have some form of control over them. As it now is, the carriers do as they please, and the shipper has no right of appeal.

Chemistry and Meat Packing

Science in the meat packing industry has become synonymous with the science of chemistry," is the way a recent lecturer on the packing industry, Dr. W. D. Richardson, summed up the modern meat packing business' claims to be one of the most scientific in the world.

The chemist in the packing industry has had a hard row. For years he had a great many duties that were of a mixed character and prevented him from concentrating upon certain definite problems. The chemical laboratories were not organized into regular divisions where progress could be made. The whole development of byproducts has come as a result of the introduction of chemists into the industry. And that was only about thirty years ago.

And the chemist has done more than introduce new products and in that way extend the scope of the industry. He has made it possible to control the quality and standardize the products that have been put out in a way that has greatly aided the industry and put it on a higher plane than many other industries. As was recently pointed out by Thomas E. Wilson, the control of quality which began with the chemist in his laboratory has set going a method for insuring better and more uniform products that is now practiced in all progressive packing plants.

Australia and Meat Outlets

Australia has had a great problem to face in the matter of its meat trade since the slump in the price of cattle. Many things have been suggested as remedies for the present state of depression, among them Oriental outlets and municipal abattoirs for the domestic trade.

While in several states of Australia there are municipally controlled abattoirs the recent movement is for the development of co-operative plants owned by the cattle raisers themselves. The trouble that, it is claimed, prevented the older plants from becoming a success was the fact that these plants often were owned by people having no interest in the business of cattle raising.

The outcome of the municipal abattoir in Australia is in the future as vet and is confined to the home trade. For that reason, in spite of many statements to the contrary, there has been no disturbance among the existing exporting packing . companies.

However, the fact is that in the export situation there is little better outlook than for some time. A subsidy is evidently not the solution to the situation, nor is the suggestion to establish retail shops in England. There is a chance for the development of considerable export trade with the orient. But it will be a limited one for some time.

The interesting feature is that there are so many different plans being discussed for the bettering of the meat trade.

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PRACTICAL POINTS FOR THE TRADE

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Discoloration in Sausage

Mould or discoloration in sausage, particularly the smoked product, is something that has bothered the best sausage-makers in the business. The trouble appears in many places and in different ways. Some have solved it, others have not.

On this page THE NATIONAL PRO-VISIONER has answered many questions concerning different phases of this problem. In a recent issue a well-known Pacific Coast superintendent outlined his experiences and experiments over a period of years. He discussed the various kinds of discoloration and their possible causes and remedies, and asked for opinions of others on the subject.

An Eastern superintendent with twenty years' experience complies with this request, and in a letter to THE NATIONAL PROVISIONER gives a clear outline of his views.

He calls attention to the chilling of the sausage material, handling through the chopper, cooler temperatures, and troubles in the drying room. He advocates a standará cure for sausage material which he thinks would remedy a lot of the trouble.

He asserts that if sausage meats are properly prepared, if the right curing formula is used, and if the product is carefully handled all the way through, and the proper temperatures observed, there should be no trouble from discoloration or mould.

His letter is as follows:

Editor The National Provisioner:

Referring to the article on discoloration in sausage which appeared in your March 24 issue of THE NATIONAL PROVISION-ER under heading of "Practical Points for the Trade."

F. C. ROGERS BROKER Provisions

Philadelphia Office: 267 North Front Street

Trenton, N. J.
Frost-Richie Building,
State & Warren Streets

New York Office: 431 West 14th Street

Figuring Sausage Costs

Extra copies of the "STUDY OF SAUSAGE COSTS" which appeared in the August 19th issue of The NATIONAL PROVISIONER may be obtained upon application to THE NATIONAL PROVISIONER, Old Colony Building, Chicago, Ill.

If you did not read this analysis of the proper method of keeping track of your sausage costs, you should get a copy of this report at once and study it. Single copies may be had free of charge, as long as they last.

I have read very carefully the letter from Superintendent Brown in Los Angeles, and in response to his request will give my experience in this matter, which covers a period of about twenty years.

There are various reasons for discoloration in sausage, which appears in varying degrees.

Sausage Troubles Outlined.

Chilling Sausage Material.—The chilling of sausage material is a very important factor. For instance—in some plants beef cheek meat, pork cheek meat and other offal are not properly spread in the offal ccoler. And at the same time possibly the temperature of the cooler is entirely too high to properly chill the meats. The meat will then go into cure in a heated condition; and while the product is not sour or entirely "gone," yet the cure does not act upon this meat in the proper way to overcome the animal heat which is still there because the meat had not been properly chilled.

Handling Through Chopping Machines. When meat is cured and taken to the chopping machine it sometimes requires a very careful inspection to detect a slight odor. And if this meat is not properly handled through the chopping machines, and the necessary ingredients added at that time, then you may look for discoloration in any part of the sausage, and not in any particular spot.

Curing Temperatures Too Low.-Again,

Profits from Casings

result from the efficient and economic operation in production and sales.

My Sales and Service combination fulfill these needs.

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sausage material is often cured in a cooler where the temperature is entirely too low for the meat to cure in the specified length of time. The sausagemaker assumes that this meat has been long enough in cure to insure satisfactory results, whereas the cure has not thoroughly penetrated the meats. And if this product is not thoroughly smoked and sufficiently cooked—particularly if it should happen to be undercooked—you may look for discoloration in the center of the product, varying in size from a ten-cent piece upwards.

Cooler Temperatures Before Smoking.—
There is another danger, where it is customary for the sausage department to stuff the product in containers and allow it to hang in the cooler overnight previous to smoking. Very frequently the temperature of the cooler will drop below freezing point during the night. This does not give the meat any advantage in curing in containers, and will invariably show a ring on the outside of the sausage just inside the casing.

This is also true of summer sausage. It has been my experience in manufacturing summer sausage in a cold climate, where the temperature would reach 40° below zero, and the heating systems in the dry rooms would freeze up during the night, and fresh product would always suffer by showing a ring in the same manner.

Of course the product that was sufficiently dried would not be affected.

Troubles in Summer Sausage Dry Room.—As a rule there are two evils in the summer sausage dry room to contend with. One is not to get the temperature too high, say not higher than 52° to 54°. The other is, under no circumstances to subject the product to a temperature anywhere near the freezing point. We could always look for a ring on the summer sausage if we lost control of the temperatures in this respect.

A Remedy Suggested.

The Los Angeles superintendent states: "I have heard any number of reasons for this, but do not believe that the correct solution has yet been offered to overcome the exact trouble." He refers to discoloration or mould in sausage.

I should like to offer the following solution which I think will overcome this difficulty beyond any doubt:

1. Handling and Chilling.—The handling and chilling of sausage material must receive close attention and see that meat is sweet going into cure.

2. Standard Cure for Sausage Material.

—Establish a standard cure for sausage material, with an understanding that meats are not to be used that are not fully cured. And do not make a practice of using meat that is overcured. In other words, follow the curing of the product very closely, and see that it is used at cured ages. And if not used, give the product proper atention and have it transferred to lower temperatures, so that it will not continue to deteriorate.

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3. Handling of Sausage Casings.—Make a careful inspection of sausage casings and see that they are always in good condition. Pay strict attention to the soaking of sausage casings.

Oftentimes casings are put in soak in the morning in warm weather, with the intention of stuffing certain product early in the day.. But the arrangements are changed, in some cases through giving preference to orders received on short notice for shipment the same day. Casings are frequently forgotten in soak, and they are allowed to remain in warm water. which sours, and when they are used they are not washed with fresh water and stripped of the soaking water before being

In conclusion, I will say that if meats are properly handled, and the curing formula is right, and the product is followed throughout the course of manufacture very carefully in regard to handling of meats, temperatures, etc., there should be no reason for any discoloration of sausage.

Yours truly.

AND OLD SUPERINTENDENT.

(EDITOR'S NOTE.—Others who have had experience with the troubles discussed by these two superintendents are invited to write their opinions for the benefit of readers of THE NATIONAL PROVISIONER and the rade at large.

Curing Frozen Hams

The following inquiry is from a small packer in the Middle West:

Enitor The National Provisioner:

Please give me whatever information you can in regard to curing frozen hams for boiling.

In thawing frozen hams, which is the best procedure, to let them thaw in a cooler, to thaw them in ordinary room temperature and chill, or to thaw them in cold water and chill as one ordinarily would?

Also, does the time required for curing frozen hams vary any from the time for curing fresh hams?

Hams cured for boiling purposes should not be pumped in the body. Many concerns are curing without any pumping whatever, while others are giving hams

Questions and Comments

Questions on any subject affecting packinghouse operation, sausage-making, curing, by-products, etc., may be submitted to THE NATIONAL PROVISIONER, and they will be answered as fully and speedily as possible. Tell us your troubles!

Comment and criticism on any advice appearing on this page are invited. Perhaps you have a better method to suggest, or you may add something that has been omit-ted. Address Editor, THE NA-TIONAL PROVISIONER, Old Colony Building, Chicago, Ill.

two strokes in the shank and one in the blood vein.

The best way to thaw hams is to submerge them in 60 degree strength, plain pickle, keeping the hams submerged in the pickle. Hams defrosted in this manner will show much better color than when thawed in natural temperatures, and the best experts do not approve of cold

The time for curing frozen hams is the same as the curing of fresh hams.

Cause of Sour Head Cheese

A sausagemaker in the Middle West writes for information on trouble he is having in making head cheese. He says:

Editor, The National Provisioner:
What causes head cheese to get gassy sometimes in a small smoke house, if the product is cold when put in?

There is no reason why the head cheese should sour in the smokehouse at proper temperatures, providing the product is in good condition going into the smokehouse.

It may be possible that you are using an accumulation of tongue gullets that have been cooked and allowed to remain in the cooler until the batch of head

cheese is made. They contain a lot of grease and get "gassy" very quickly.

We are inclined to think that it is something of this nature that is causing your head cheese to sour in the smokehouse, and would appreciate further information. Send us the formula you are working on that is causing you the trouble.

Keeping Summer Sausage

More packers are taking up the manufacture of summer sausage as its popularity grows with consumers. But there is still a great deal to be learned about making and keeping the product. A Western packer writes:

Editor The National Provisioner:

We are very much interested to know of the best method of keeping summer sausage, made during the winter months, until the middle of the summer.

We were wondering whether or not it would be possible to pack it in boxes and put it in cold storage.

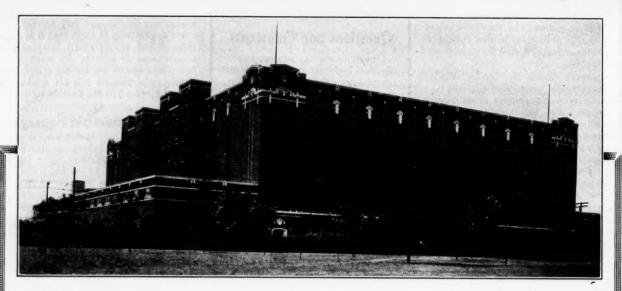
put it in cold storage.

The very best method of keeping fully dried summer sausage is to carry it in a cooler at an even temperature of 40° F. To obtain the very best results the product should be hung in sections, banked closely

If the product is thoroughly dried and the cooler is perfectly dry, and you maintain an even temperature of 40° F., you are not taking any great risk. But if some of the product is not sufficiently dry it may mould in the boxes, in which case you would be put to the expense of opening the boxes and washing the product. Therefore, it is recommended that the product be hung in sections, as here mentioned.

DANISH BACON HAVING TROUBLES.
English consumers are raising the same objection to Danish bacon which they hold to certain types of American bacon, according to recent reports. It is claimed that the bacon is too fat and to remedy this hold to certain types of American bacon, according to recent reports. It is claimed that the bacon is too fat and to remedy this condition the Danish co-operative packinghouses have notified farmers that on and after Feb. 19 the weight of hogs accepted for slaughter would be reduced. This means of meeting the demand of the Danish market has been discussed on several occasions by packers in the United States, but no acceptable means of following this production have been found.





Announcing Our New Curing Department

THE UNITED STATES COLD STORAGE COMPANY, of Chicago, takes pleasure in announcing the opening of a large, modern curing department under Government Inspection.

This department will be personally managed and supervised by Mr. W. T. Casey, formerly of Morris & Company, whose twenty-five years of successful experience in the curing of meats will enable us—with our added facilities—to cure meats that will compare favorably with any on the market.

Because of these new facilities, our low insurance rate (the lowest anywhere) and our ability to finance your products on a reasonable basis, we solicit your business with confidence.

Write W. T. CASEY, care of

United States Cold Storage Company

2101 W. Pershing Road Chicago = Illinois

PROVISIONS AND LARD

WEEKLY REVIEW

All articles under this head are quoted by the barrel, except lard, which is quoted by the hundredweight in tierces. pork and beef by the barrel or tierce and hogs by the hundredweight.

Rally -- Hogs Firm -Lighter—Stocks Gains Moderate—Hog Receipts Excellent.

The hog movement conditions of the past week have not shown the apprehended reduction in receipts anticipated, while on the other hand, the price of hogs has been excellently well maintained, so that the returns to shippers have been held up in good shape, although there has been quite a strong feeling that the movement would shortly fall off particularly if the price of hogs decline. As the price of hogs did not decline materially, in keeping with the action of the product market there were some who looked for a recovery in the price of product.

price of product.

The hog receipts the past week at seven leading points were 681,000, against 380,000 last year, cattle 174,000, against 150,000, and sheep 205,000, against 163,000. With this tremendous movement of hogs the average price at Chicago was only 5c lower for the week than the preceding week, and this week hogs started above last week's average.

Hog Receipt Comparisons.

The total receipts of hogs at Chicago for the past month were 925,596, an increase of 282,232 over last year, while the number shipped increased only 65,473, indicating a gain in local packing of 217,000 over last year. Yet with all that gain in packing, the increase in lard stocks was only 2,-200,000 lbs., against an increase last year of 13,500,000 lbs., and a gain in total meat stocks was only 10,000,000 lbs., against a gain last year of 11,000,000 lbs., showing that the increase in kill was taken care of in the movement from Chicago.

Chicago Stocks of Provisions.

The Chicago statement of stocks compared with the end of February this year and last year follow:

	1923
	March 31. Feb. 28.
Pork-New, bbls	862 1,052
Other, bbls	24,713 21,894
Lard-New, 1bs	8,704,646 7,390,011
Other, 1bs	4,790,830 3,932,700
Total, lbs	13,495,496 11,228,711
Short ribs, lbs	3,995,131 1,659,250
Total meats, lbs	124,877,630 114,753,692
	1922
	March 31. Feb. 28.
Pork-New, bbls	252 770
Other, bbls,	28,252 23,190
Lard-New, lbs	28,572,058 16,002,647
Other, Ibs	5,141,505 4,240,430
Total, lbs	33,713,563 20,243,077
Short ribs, lbs	124,273 240,487
Total meats, lbs	86,828,538 75,347,388

Lard Shipments Near Record.

The export movement of product was ery heavy for the last week, the lard

shipments amounting to 40,071,000 lbs., which is nearly up to the record of the year, and compares with 1,875,000 lbs. last year, and compares with 1,875,000 lbs. last year. Exports of meats were 19,482,000 lbs., compared with 10,366,000 lbs. a year ago. The fact that the export movement, particularly of lard, keeps on such a large scale, makes it difficult for bearishly inclined operators to force the market down. With stocks at Chicago only 13,495,000 lbs., or less than one third of the abinomia for or less than one-third of the shipment for one week, it shows that the supplies pressing on that market, are not suggestive of any hedging accumulation or pressure of a kind which will be disturbing to holders.

Home Demand Takes Product.

Packing operations have continued on such a scale for so long and the product has been absorbed, that there is a very pronounced feeling that the domestic consumption is taking care of the output in a most satisfactory way. If there is a maintenance of the exports like that recently seen, it will tend to prevent a very much further accumulation in stocks, if any, and influence a rapid decrease when the usual time of the year arrives for such decrease. In connection with this, the March 15 report of fish stocks shows a comparatively small supply on hand, the amount of frozen fish being only about half of the average.

An interesting study by a dry goods authority of the number of sheep in the country as a factor in the wool market was rather impressive showing that the private investigation indicated nearly 5 per cent more sheep in the country than reflected by the Government report, but that the conditions surrounding the sheep industry were very satisfactory, not only industry were very satisfactory, not only as regards prices for livestock, but prices for wool, and on that account there was no special apprehension as to the influence of such increased stock on the market.

Foreign Exchange Steady.

The foreign exchange steady.

The foreign exchange conditions have been comparatively steady the past week. The support of the German exchange is a very helpful factor in the export movement of lard. The shipments of lard the past week included 16,591,000 lbs. to Germany, 5,241,000 lbs. to Antwerp, and 7,082,000 lbs. to Alleged editors the the 983,000 lbs. to Holland, all pointing to the need of fats in the low countries, and central Europe. This movement has kept up so long that it is bringing about the belief that the pressing fat necessities are com-pelling the buying of this product and that the demand may keep up for a consider-

able time longer.
PORK.—The market was dull and steady with mess at New York 27@27.50, family 32@33, and short clears 22@29. Chicago mess pork was quoted at \$25

LARD-Market steadier but cash trade rather quiet, domestic and export. At rather quiet, domestic and export. At New York prime western was quoted at 12.10@ 12.20c, middle western 11.90@12c, New York City 11%@11%c, refined to the continent 13c, South American 13½c, Brazil kegs 14½c, and compound 13½@13%c asked. At Chicago regular lard in round lots was 11½@11½c, loose lard .80 under May, and leaf lard .60 under May.

BEEF—The market was quiet but firm with mess at New York \$17.50@18.50, packer \$16.50@17.50, family \$20@21.50, extra India mess \$32@34. No. 1 canned roast

tra India mess \$32@34, No. 1 canned roast beef \$3.25, No. 2 \$5.25, and sweet pickled tongues \$55@65 per bbl., nominal.

SEE PAGE 43 FOR LATER MARKETS.

EXPORTS OF PROVISIONS

Exports of provisions from the Atlantic and Gulf erts for the week ending March 31, 1923, with com-DODK BRIS

	PORK, BBI	LS.	
			From
	Week		ov. 1, 1922,
	ended Mar.		to Mar.
	31, 1923,	1, 1922,	31, 1923,
United Kingdom	238	45	3,115
Continent		100	11.194
So, and Cent. Amer			390
		470	
West Indies		450	10,270
B. N. A. Colonies.			200
Other countries			270
Total	. 558	595	25,439
BACO	N AND HA		
United Kingdom		3,305,000	240,296,300
Continent	7 133 000	817,000	94,980,350
So. and Cent. Amer	. 1,133,000	011,000	225,500
			3,003,400
		******	0,003,400
B. N. A. Colonies.			22,300
Other countries			501,700
Total	.17,298,150	4,122,500	339,029,550
	LARD, LE	BS.	
United Kingdom Continent	. 7,555,798	1.312,400	128,920,646
Continent	.21.920.177	5,734,876	266,028,034
So, and Cent, Amer	60,000		1.084.673
West Indies			5,399,000
B. N. A. Colonies			
Other countries			61,000
Other countries			176,400
Total	.29,546.975	7.047,276	401,669,753
RECAPITULATIO	N OF THE	WEEK'S I	EXPORTS.
_	Pork,	Bacon and	
From—	lbs.	hams, lbs.	Lard, lbs
New York	503	14,168,150	27,102,973
Portland, Me		1,509,000	1.134.000
Boston			30.000
Poston			
New Orleans	55		178,000
	55		178,000
New Orleans	55	1,581,000	178,000 1,102,000
New Orleans St. John, N. B Total, week	558	1,581,000	178,000 1,102,000 29,546,973
New Orleans St. John, N. B Total, week Previous week		1,581,000 17,298,150 15,516,000	178,000 1,102,000 29,546,973 20,684,820
New Orleans St. John. N. B Total, week Previous week Two weeks ago		1,581,000 17,298,150 15,516,000 18,911,000	178,000 1,102,000 29,546,97; 20,684,820 32,700,60
New Orleans St. John, N. B Total, week Previous week Two weeks ago Cor. week, 1922		1,581,000 17,298,150 15,516,000 18,911,000 4,122,500	178,000 1,102,000 29,546,97; 20,684,82; 32,700,60 7,027,27;
New Orleans St. John. N. B Total. week Previous week Two weeks ago Cor. week, 1922 Comparative sum from Nov. 1, 1922.	558 1,880 3,681 595 mary of agg to March 3	1,581,000 17,298,150 15,516,000 18,911,000 4,122,500 regate expo	178,00 1,102,000 29,546,97 20,684,82 32,700,60 7,027,27
New Orleans St. John. N. B Total. week Previous week Two weeks ago Cor. week, 1922 Comparative sum from Nov. 1, 1922.	558 1,880 3,681 595 mary of agg to March 3	1,581,000 17,298,150 15,516,000 18,911,000 4,122,500 regate expo	178,000 1,102,000 29,546,973 20,684,820 32,700,60 7,027,270 rts, in lbs.
New Orleans St. John. N. B Total, week Previous week. Two weeks ago. Cor. week, 1922 Comparative sum from Nov. 1, 1922.	558 558 1,880 3,681 595 mary of agg to March 3 122 to 1923, 1	1,581,000 17,298,150 15,516,000 18,911,000 4,122,500 (regate expo 31, 1923: 1921 to 1922.	178,000 1,102,000 29,546,97; 20,684,82; 32,700,60- 7,027,27; rts, in lbs. Increase.
New Orleans St. John. N. B Total. week Previous week Two weeks ago. Cor. week, 1922 Comparative sum from Nov. 1, 1922,	558 1,880 3,681 595 mary of agg to March 3 922 to 1923 5,087,800	1,581,000 17,298,150 15,516,000 18,911,000 4,122,500 (regate expo 11, 1923: 1921 to 1922. 2,057,400	178,000 1,102,000 29,546,97; 20,684,820 32,700,600 7,027,270 rts, in lbs. Increase. 3,030,400
New Orleans St. John. N. B Total, week Previous week Two weeks ago Cor. week, 1922 Comparative sum from Nov. 1, 1922.	558 1,880 3,681 595 mary of agg to March 3 922 to 1923, 1 5,087,800 39,029,550	1,581,000 17,298,150 15,516,000 18,911,000 4,122,500 (regate expo 11, 1923: 1021 to 1922. 2,057,400 216,419,644	7,027.276 rts, in lbs.

Estimated Consumption Per Capita of Each Kind of Dressed Meat and Lard in the United States for Recent Calendar Years as Compared with 1900 and 1909.

Class. 1900 lbs.		1917 lbs.	1918 lbs.	1919 lbs.	1920 lbs.	1921 lbs.	1922 1bs.
Beef 79.2 Veal 10.0 Mutton and Lamb 7.7 Pork (excluding lard) 84.6	7. 6.	6.5 4.9	65.2 7.4 4.8 67.6	58.0 7.7 5.9 68.6	61.2 7.9 5.1 69.0	57.8 7.0 6.2 72.9	61.4 7.3 5.0 76.0
Total Meat Lard			$145.0 \\ 13.6$	140.2 12.8	143.2 13.1	143.9 11.3	149.7 14.1
Total Meat and Lard 181.5	5 170.	143.8	158.6	153.0	156.3	155.2	163.8

Note: These figures do not include the weight of the so-called extra-edible parts such as livers, hearts and tongues. It is estimated that these parts offset the weight of the bones and waste of the dressed animal. Separate figures for lard consumption per capita in 1900 are not available; hence, the figure 84.6 pounds includes both pork and lard. Figures for 1900 and 1909 are from the "Meat Situation in the United States." Figures for the other estimates by the Bureau of Animal Industry. The compilation was made by the Institute of American Meat Packers.

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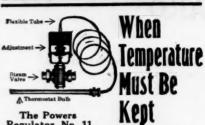
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Regulator No. 11

Entirely automatic. Reliable. Accurate. Can be set for the desired temperature, and varied at will within a range of 40 degrees. Easily applied. Put thermostat bulb in liquid to be controlled and valve in steam supply.

hog scalding, hand regulation fre-

quently results in over-scalding or under-scalding, and consequent mutilation of skins. The most constant watchfulness on the part of employees can not prevent such troubles when the temperature is controlled by hand

Powers Regulator No. 11

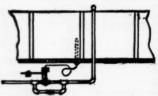
Powers Automatic Regulators maintain the temperature without variation. The sensitive thermostatic bulb which is immersed in the water keeps the heat at the proper degree. Powers Regulators are easy to install, do not require further attention, and maintain the proper temperature, thus allowing the employee to devote his entire attention to productive work.

TRY ONE!

We offer to install the Powers Regulators on a "make good" basis. Our free Bulletin 129 gives facts about heat control as applied to the Meat Packing Industry.

HE POWERS REGULATUR []

2725 Greenview Ave., CHICAGO NEW YORK-BOSTON-TORONTO Offices in 28 Other Cities



Typical installation of the No. 11 Regulator in a Hog Scalding Tank. Arrangement

PROVISION OUTLOOK NOT BULLISH. Biggest Stocks of Some Products for Past Sixteen Years.

(Letter to The National Provisioner from James A. Duggan of E. Lowitz & Co.) Chicago, April 4, 1923.

The mid-week top on hogs was 8.60c; average is 8.40c. The narrowest spread since 1916 at this period.

Receipts of hogs in Chicago have been only moderate so far this week, but in the West have been heavy.

The hog receipts in 1923 to date at 20 markets are 11,919,000-over 300,000 more than for a like period last year.

At this time last year and two years ago hogs were selling around 10 1/2 c. Some are looking for lighter receipts during April, anticipating bad roads and the farmer giving all his time to putting in the crops. Also some think this will have the effect of advancing the hog markets.

We do not anticipate any noticeable cutting of the receipts, but should such conditions develop, it only means an accumulation that will come later and lower

The trade in hog meat is not good. There The trade in hog meat is not good. There is still a good foreign demand for lard, but we have noticed that often the demand drops suddenly. There are 27,290,000 lbs. of lard on hand as against 44,675,290 lbs. in the seven principal packing centers of the country. Lard increased at these markets during March about 5,000,000 lbs. Stocks of ribs are about 4% million lbs., as against less than a half million pounds last year.

pounds last year.

The stocks of dry meats are nearly 17,-000,000 lbs. greater than they were at this time last year. That looks burdensome. Stocks of hams are over 140,000,000 lbs., or 51,000,000 lbs. greater than last year.

The total cuts of meats are 324,619,432

lbs., 109½ million pounds greater than last year.

Nothing to Bull Provisions

We see nothing to bull provisions on with these heavy receipts and the supply of hogs keeping very heavy. Lard would get a little advance temporarily.

get a little advance temporarily.

The measure on the strips of cut meats during March is the heaviest in 16 years, except in 1911. Four times during this period the stocks decreased during March. An increase of 3,000,000 hogs in the first three months of this year, as compared to last year is worthy of consideration. It means one pound on the buying side of the market.

Chean hams have stimulated the con-

Cheap hams have stimulated the con-sumption somewhat. If hams are kept at a moderate price, the present heavy stocks of hams with the future liberal accumulations will probably go into consumption timely, thereby avoiding any carry over.

BRITISH BACON AND HAM IMPORTS.

Imports of bacon and hams into Great Britain for the first two months of this year from all sources with comparison for the two preceding years.

These figures are of considerable interest and the heavy supplies received in Great Britain this year fully explain the recent low basis of prices prevailing on British markets for all classes of bacon.

BAG	CON.		
January— Denmark Canada U. S. A Other countries	.167,554 .140,938	1922. Cwts. 161,816 57,847 201,360 12,769	1923. Cwts. 239,407 66,949 452,072 14,406
	460,792	433,792	772,886
HA	MS.		
U. S. A Canada Other countries	2,001	71,679 6,336 3,214	118,601 5,255 245
	23,788	81,229	124,101
BAC	ON.		
February— Denmark Canada U. S. A Other countries.	. 77,664 .192,659	139,045 39,071 210,925 29,542	261,071 55,188 280,079 15,271
	443,488	418,583	611,609
HA	MS.		
U. S. A Canada Other countries	. 980	114,580 7,941 272	135,171 4,681 442
	34,062	122,793	140,294
	-		

GERMAN HOG IN HARD LUCK.

German farmers are up against it when it comes to stock feeding. The Germany hog business before the war prospered through the abundant supplies of cheap Russian barley, Mr. Alfred P. Dennis, special representative of the Department of Commerce reports. Young pigs were started on skim milk, helped along by alfalfa and other pasturage, and were later fat-tened on barley and potatoes. Russian barley is no longer procurable, and the average Germany potato crop for the last three years was only half of the pre-war yields, but, even greater than this, the direct per capita consumption of potatoes increased from 440 lbs. in 1914 to 660 lbs. in 1921, of fifty per cent.

increased from 440 lbs. in 1914 to 660 lbs. in 1921, of fifty per cent.

This phenomenon of increased human potato consumption in the face of lower production is connected with the wide-spread, post-war substitution of potatoes for bread. The hog industry has been forced to bear the brunt of the increase in potato consumption, and as a consequence the German hog has been brought back to the position of a domestic animal. back to the position of a domestic animal, subsisting principally upon table scraps and milling offals. Under the circumstances, German business in American hog products is encouraging, with a better

outlook for future dealings. STOKERS OF ALL SIZES FOR ANY APPLICATION Address Nearest Office Sales and Service Offices in All Principal Cities ouse Electric & Mig. Co. Philadelphia Works nghouse 923. RTS

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TALLOW, STEARINE, GREASE AND SOAP WEEKLY REVIEW

TALLOW .-- The market was fairly active and somewhat steadier, though no price changes were made, sales being reported of 750,000 to 1,000,000 lbs. of extra at New York at nine cents, with offerings more tightly held, and with the foreign markets firm. The west reported an easier tone, but South America was strongly held and reported difficult to buy for shipment, while at Liverpool Australian tallow was unchanged following the holidays, with fine 41s 6d, and good mixed 42s.

At New York prime city was quoted at 8½c nominal, special loose 8¾c, extra at nine cents, and edible 10 %@10 %c. At Chicago edible was quoted at ten cents for the top, fancy and choice 91/2@93/4c, prime packers' 9@91/2c, and prime country at nine cents asked.

STEARINE.-The market was easier, with some small sales of oleo at New York at 10%c, but the better feeling in tallow and in cotton oil made for limited offerings on the decline, with some looking for a better market as the warmer weather comes around, with the result that oleo was held at 11c later in the week, with offerings limited. At Chicago the market was easier, with oleo quoted at 101/2@10% c. At New York lard stearine was 141/2c nominal, and at Chicago 131/2 @14c.

OLEO OIL .- The market was dull and steady with extra at New York 141/4c nominal, medium 121/2c, and lower grades 111/2c. At Chicago extra was 13@134c.

SEE PAGE 43 FOR LATER MARKETS.

LARD OIL.—Irregularity in lard, with the market heavy at times, resulted in freer offerings of lard oil, and an easier undertone, with demand limited. At New York edible was quoted at \$1.18@1.22 per gallon, extra winter \$1.02@1.05, extra at 98c@\$1; extra No. 1 at 94@96c, No. 1 at 92@94c, No. 2 at 90@92c.

NEATSFOOT OIL.—Demand was reported as quiet, but the undertone was steady, with offerings rather light. Pure oil at New York was quoted at \$1.02@1.04 per gallon, extra at 97@98c, No. 1 at 92@94c, and cold pressed at \$1.28@1.35.

and cold pressed at \$1.28@1.35.
GREASES.—The market was rather quiet and more or less unsettled, with buyers watching closely the developments in tallow, and with holders showing little disposition to make concessions. An easier feeling in the west, where choice white grease was reported more plentiful, had some influence. At New York yellow and choice house were quoted at 8¼@8½c, choice brown at 8½c, and white 10½@ 10½c. At Chicago brown and house were quoted at 8½@8½c, yellow 8%@8¾c, and choice white 9½@9¾c.

NEW YORK LARD EXPORTS.

Exports of lard from New York from April 1 to April 3, 1923, according to unofficial reports, were 3,501,999 lbs.; tallow, 80,000 lbs.; greases, 597,600 lbs.; and stearine, 166,800 lbs.

COTTONSEED OIL EXPORTS.

Exports of cottonseed oil from New York from April 1 to April 3, 1923, according to unofficial reports, were 50 bbls.

EASTERN FERTILIZER MARKETS.

(Special Report to The National Provisioner.) New York, April 4, 1923.—New York ground tankage was sold this week at \$4.25 and 10c, and while the producers are asking more money, the chances are that the next sales will be even under this figure. The demand does not amount to anything and considerable Canadian tankage is being offered on this market at low prices, both ground and unground.

When it comes to blood that material seems to have been unsaleable for the last three weeks. A few cars have been offered all the way from \$4.90 down to \$4.50 per unit with no buyers. Quite a little bonemeal, both raw and steamed, has beeu sold at slightly lower prices than prevailed some time ago.

The demand for liquid stick has also fallen off but there are very few offerings in this market.

Nitrate of soda and sulphate of ammonia are both in demand and the stocks of nitrate are very light.

CHEMICALS AND SOAP SUPPLIES.

(Special Wire to The National Provisioner.)
New York, April 3, 1923.—Latest quotations on chemicals and soapmakers' supplies are as follows:

Seventy-six per cent caustic soda, \$3.70 @3.80 cwt.; 98% powdered caustic soda, 44@4%c lb.; 58% carbonate of soda, \$2.09@2.35 cwt.

\$2.09@2.35 cwt.

Clarified palm oil, in casks of 2,000 lbs., 8%@9c lb.; commercial yellow olive oil, \$1.20 gal.; olive oil foots, 9½@9%c lb.; East India Cochin cocoanut oil, 13c lb., duty paid; Cochin grade cocoanut oil, domestic, 11c lb.; Ceylon grade cocoanut oil, 10½c lb.

Prime summer yellow cottonseed oil, 12½ @13½ c lb.; soya bean oil, 12@12½ c lb.; domestic linseed oil, \$1.13@1.15 gal.; crude corn oil, in bbls., nominal, 12½ c lb.; peanut oil, in bbls., New York, deodorized, 17.20.17½ c lb.; yearut oil, in tanks for lb. 17@17½c lb.; peaunt oil, in tanks, f. o. b. mills, 14c lb.

Prime city tallow, extra, 9c lb.; dynamite glycerine, nominal, 16½@17c lb.; saponified glycerine, nominal, 12%c lb.; crude soap glycerine, nominal, 11c lb.; chemically pure glycerine, nominal, 18@1816.b. prime procedure, nominal, 18@ 18½c lb.; prime packers' grease, nominal, 8¼ @8%c lb.

Packinghouse By-Products Markets

Chicago, April 5, 1923.

There is very little surplus of blood. Packers' ideas are higher than those of buyers. However, packers are well situated and are using their own supplies of blood

Dioou.									1	U	ni	it	ammonia.
Ground								 				.8	4.10@4.25
Crushed	and	unground		 									3.75@4.00

Digester Hog Tankage Materials.

There has been no trading at all. Buyers have been under sellers' ideas all along the line.

			CHI	вшшоша.
Ground, 111/2	to 12%	ammonia	 	3.25@3.50
Unground, 10	to 11%	ammonia	 	2.90@3.15
Unground, 7	to 9% a	mmonia	 	2.65@2.80

Fertilizer Tankage Materials.

This market has been very quiet this week as it is late in the season. Quotations are as follows:

Un	it amm	onia.
High grade, ground, 10-11% ammonia \$	3.25@	3,35
Lower grade, ground, 6-9% ammonia	2.90@	3.15
Medium to high grade, unground	2.40@	
Low grade and country rend., unground.	2.15@	
Hoof meal	2.65@	
Liquid stick	2.60@	
Grinding hoofs, pigs' toes, dry	32.00@	34.UU

Bone Meals.

Bone meals are fairly steady with some trading and perhaps a little easier in price. They slumped with fertilizer. But there ought to be a real demand starting within 60 days or so.

															Per ton.
Steamed.	ground .	۰		 				٠	٠	٠	۰	٠	٠	٠	\$36,00@38.00 23.00@25.00 19.00@21.00

Cracklings.

Beef cracklings are easy. Pork cracklings on the other hand are scarce and the demand is good.

Per ton. Pork, according to grease and quality...\$70.00@87.50 Beef, according to grease and quality... 50.00@65.00

Glue and Gelatin Stock.

Jaws, skulls and knuckles are selling up

te \$40. Hide trimmings are \$18.50 to \$21.50.

	Per ton.
Calf stock	\$32,00@36.00
Edible pig skin strips	75.00@80.00
Rejected manufacturing bones	55.00@60.00
Horn piths	40 00@42 50
Cattle jaws, skulls and knuckles	38.00@40.00
Junk and hotel kitchen bones	28.00@30.00
Sinews, pizzels and hide trimmings	18.00@21.50

Mfg. Bones, Horns and Hoofs.

This market is about the same as last week. Manufacturing hoofs are easier, probably because fertilizer hoofs are

	Per ton.
No. 1 horns	\$275,00@300.00
No. 2 horns	225.00@250.00
No. 3 horns	150.00@200.00
Culls	32.00@ 34.00
Hoofs, black and striped, unassorted	36.00@ 38.00
Hoofs, white. unassorted	50.00@ 60.00
Round shin bones, unassorted, heavies	85.00@ 95.00
Round shin bones, unassorted, light	70.00@ 80.00
Flat shin bones, unassorted, heavies	65.00@ 70.00
Flat shin bones, unassorted, lights	55.00@ 60.00
Thigh bones, unassorted, heavies	85.00@ 95.60
Thigh bones, unassorted, lights	70.00@ 80.00

Hog Hair.

Demand for hog hair has continued steady. Coil dried winter processed has sold 2%c f. o. b. production points and 7%c for winter processed.

Pig Skin Strips.

The market has been about steady with a fair amount of trading. No. 1 tanner stock sold at 5½c per lb., with No. 2's and 3's going for gelatin purposes, if government inspected and frozen, at around 3¾c lb. basis Chicago.

CATTLE SHIPMENTS AT MONTREAL.

It has been announced that for the ship-It has been announced that for the shipment of Canadian cattle to the United Kingdoms the ports of Glasgow, Aberdeen, Birkenhead, Bristol, Southampton, Newcastle-on-Tyne, Manchester and Cardiff will be available for landing, according to a report to the U. S. Department of Commerce. The Canadian Government is making every effort to secure the export of only the better type of steers, animals weighing not under 1,000 pounds and under three years old, and to secure uniform quality and supply so as to assist the trade.

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Margarine Production Three Times Pre-War

The value of oleomargarine and other butter substitutes manufactured by establishments engaged primarily in this business amounted to \$39,177,000 in 1921, compared with \$79,816,000 in 1919 and \$15,-080,000 in 1914, a decrease of 51 per cent from 1919 to 1921, but an increase of 160 per cent for the seven-year period 1914 to 1921. In addition, oleomargarine was also manufactured by slaughtering and meat packing establishments and as a subsidiary product by establishments engaged in other industries to the value of \$9.660,000 in 1921, \$41,969,000 in 1919, and \$8,827,000 in 1914.

Of the 45 establishments reporting in 1921, 9 were located in Illinois; 6 in Rhode Island: 5 in New Jersey; 4 each in Maryland, Missouri and Ohio; 3 each in Califorria and Wisconsin; 2 each in Cambria and Wisconsin; 2 each in Massachusetts and New York; and 1 each in In-Giana, Minnesota and Washington.

In January, the month of maximum en-

ployment, 2,636 wage earners were reported, and in July, the month of minimum cmployment, 1,538—the minimum representing 58 per cent of the maximum. The average number employed during 1921 was 2,641 as compared with 2,851 in 1919 and 917 in 1914 917 in 1914.

The figures for 1921 are preliminary and subject to such change and correction as may be found necessary from a frexamination of the original reports.

The statistics for 1921, 1919 and 1914 are summarized in the following state-

ment.			
	1921.	1919.	1914.
Number of establish-			
ments	45	42	17
Persons engaged	2,782	3.868	1.265
Proprietors and firm	-,	.,	2,200
members		1	1 1
Salaried employees	741	1,016	347
Wage earners (aver-			
age number)	2.041	2.851	917
Salaries and wages \$	4,569,000	\$5,168,000	\$1,082,000
Salaries	1.841.000	1,984,000	498,000
Wages			
Cost of materials 2	8,062,000	66,043,000	10.257,000
Value of products 3	9.177,000	79,816,000	15,080,000
Value added by manu-			
	1 115 000	12 772 000	4 892 000

*Value of products less cost of materials.

VEGETABLE OILS IN NORWAY.

Conditions within the margarine industry of Norway during the year 1922 have been summarized by a leading manufacturer as follows:

The margarine industry of Norway is about to re-enter pre-war channels after having passed through all of the difficulties which arose as a result of the world All government restrictions have been repealed, prices are not subject to fixation, and as a result competition is now as keen as it ever has been. Production of margarine in Norway was about on the same level in 1922 as in 1921.

During the year two small margarine factories were established, one in eastern and one in northern Norway. During the war exports of margarine stopped entirely. It seems to be difficult to resume these exports, and at present no margarine is exported from Norway with the exception of the small quantities which are delivered to Norwegian vessels in foreign waters. During the year a small quantity of margarine was imported into Norway from Holland.

Prices on raw products fluctuated considerably during the year and were at the year's close somewhat higher than at its beginning. In spite thereof margarine prices were reduced by from Kr. 0.45 to Kr. 0.50 per kilogram during the year. This is said to be due to more favorable exchange rates. The results of the year's activities for margarine manufacturers were different, depending upon the conditions under which raw products were purtions under which raw products were pur-chased. The year 1922 must be charac-terized as having been fairly satisfactory for the Norwegian margarine industry. Prospects for 1923 are said, however, to be decidedly poor. Competition among the manufacturers has reduced prices to such a level that, based on costs of raw products, profits are out of the question.

A/S Lilliborg Fabrikker, vegetable oil refiners, announced on or about January 16, 1923, an increase in its capital stock from Kr. 2,000,000 to Kr. 3,000,000. This is a result of the recent purchase of Stavanger Oljemlle.

Imports of vegetable oils to Norway in November, 1922, were as follows: November, 1922, 1,759,090; November, 1921, 1,400,191; January-November, 1921, 14,915,204. By far the largest part of the imports were coccanut and peanut oil cocoanut and peanut oil.

NEW STUDY OF BOLL WEEVIL.

A new and elaborate statistical study of the influence of various factors in the control of the cotton boll weevil, is to be made by the U.S. Department of Agriculture. Mobilization of the department's full force of statisticians and entomologists is taking place, an advance guard of statisticians from the Bureau of Agricultural Economics having already moved to the Tallaluh, La., station of the Bureau of Entomology to confer with entomologists

The next move will be an analysis of the thousands of records and observations at the Tallulah station made by entomolo-gists covering the entire cotton belt over a number of years. Statistical methods of examining the comparative effect of various control methods will then be worked

A widespread inquiry will also be made next fall through the crop reporters of the Bureau of Agricultural Economics as to the relation of various methods of control employed this year to the yield of cotton

obtained. It is expected that these studies will develop important data that will permit the planning of a really effective offensive against the cotton pest.

PRESS CLOTH STANDARDS.

At the request of a member of the Interstate Cotton Seed Crushers Association, and in co-operation with the Association, a study of the percentages of oils and moisture was made on various commercial

press cloths in the textile laboratories of the U.S. Bureau of Standards. The results of this investigation war-rant the selection as standards for this naterial the following percentages: Molsture, 11 per cent; oil, 5 per cent; water soluble, 2½ per cent.

This press cloth used in the presses of

the oil extraction industries requires great strength and resiliency, necessitating the use of hair to a large extent. The purchases made on a weight basis make the various percentages of or gredients of primary importance. of other

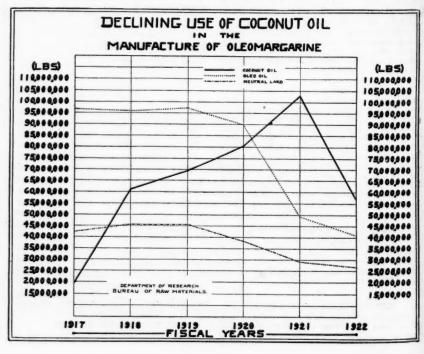
VEGETABLE OILS IN JAPAN.

The vegetable oil market has of late showing greatly increased activity. The bean cake and bean oil market has been bean cake and bean on market has been especially active and prices have been steadily advancing, according to a report to the U.S. Department of Commerce. The price of perilla oil has also shown a remarkable increase due to the scarcity of seed and the consequent very high prices. Dairen exported to the online ing January, the following: E Dairen exported to the United States dur-Bean 1.088.840 pounds; perilla oil, 864,945 pounds.

OLIVE CROP OF GREECE BIG.

Reports indicate that the olive crop of Greece for the present year will greatly exceed that of 1921, according to a recent report to the U. S. Department of Com-

The olive crop of the Pilion district has been very rich this year. There are 2,000,000 okes left over from last year and 1922 crop is estimated at 12,000,000 s. For this reason the inhabitants of the district have requested that they be allowed to export olives. Consumers are, however, of the opinion that such exportation should not be permitted, in order that low prices for olives and olive oil may



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VEGETABLE OILS

WEEKLY REVIEW

THE NATIONAL PROVISIONER is Official Organ of the Interstate Cottonseed Crushers' Association, the Texas Cottonseed Crushers' Association, South Carolina Cottonseed Crushers' Association, the Georgia Cottonseed Crushers' Association and the Mississippi Cottonseed Crushers' Association.

Trade Quieter—Market Stronger—Refiners and Commission Houses Buyers—Offerings Light—Crude Steadler—Lard Firmer—Compound and Oil Trade Quiet.

Cotton oil futures on the New York Produce Exchange, after showing losses of 78 to 101 points from the highs of the season at the close of March, recovered 35 to 40 points from the lows of the downward movement this week, with evidence of a completion of liquidation, aggressive commission house buying, and noticeably lighter offerings. Buying by refiners' brokers was very effective at times, and short covering uncovered stop-loss orders, helping the advance.

The volume of trade was somewhat smaller than that of late, but the readiness with which values responded to buying power tended to bring about a more bullish feeling and the expectations of a very favorable March government report, with a disposition here to raise ideas on March consumption to 225,000 or 250,000 bbls., was a factor of no little importance.

Some Expect Oil Price Over Lards.

The rally in the market was started by a somewhat better feeling in lard prices

at the west, but it was noticeable that oil values come back more readily than did lard, with the result that May oil at one time was equal to about forty points over May lard, while July oil averaged 15 to 25 points over July lard. There are those in the trade who are expecting oil values to go anywhere from a half to a cent a pound over lard, and notwithstanding the large open spread between the two commodities, the spreading operations have not been profitable as yet, bringing about a condition somewhat similar to that of a year ago, when cotton oil went to a large premium.

There was nothing startling in the news to account for the bulge, excepting possibly renewed confidence on the part of the leading longs, together with lighter hog receipts than the previous week, and rather general expectations that the hog movement would fall off, from this time forward, owing to increased pressure of farm work. However, hog receipts this week have averaged considerably above those of the same week last year, but nevertheless, hog values are exceptionally well maintained, and considerable attention was given the disappointingly

small increase—2,266,000 lbs.—in the Chicago monthly lard stock statement, lard supplies on April 1, totaling 13,495,000 lbs., against 33,714,000 at the same time last year.

The lard stocks have not accumulated as the bearish element had anticipated, but confidence was noted in the possibilities of the stocks increasing decidedly this month, as cash lard trade was generally reported as small, although some fresh export business was confirmed, and lard shipments last week totaled over forty million pounds.

Crude Markets Steady But Light.

The crude markets were steadier, but trade was light, and the market more or less nominal, with some sales in the southeast at 10¼ 210½c, the Valley 10½ 210%c, and Texas 10%c asked. Little or no attention is being given the crude market as remaining supplies are small, and said to be strongly held.

Cash business was daily reported as slow to fair, in both oil and compound, the latter feeling the relative cheapness of lard, but the larger refiners reported deliveries of oil against old sales as large,

ASPEGREN & CO., INC.



Produce Exchange Building NEW YORK CITY DISTRIBUTORS



AGENTS IN PRINCIPAL EASTERN CITIES





SELLING AGENTS FOR

The Portsmouth Cotton Oil Refining Corp., Portsmouth, Va. The Gulf & Valley Cotton Oil Co., Ltd., New Orleans, La. The International Vegetable Oil Co., Savannah, Ga.

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IMPORTED ENGLISH FULLERS EARTH

HIGHEST STANDARD QUALITY

STOCKS CARRIED AT SEATTLE, NEW YORK AND CHICAGO DIRECT IMPORT

Samples and Particulars on Request to Either Office

Industrial Chemical Co., 200 Fifth Ave., New York City

Western Representative: EDGAR R. ADLER, Union Stock Yards, Chicago Pacific Northwest Representative: W. J. LAKE & CO. Inc., Central Bldg., Seattle, Wash.

and compound very liberal, indicating good distribution into consumptive chan-nels, and tending to confirm the expectations of a favorable government report. Compound was firm at 13½@13¾c in car-

Compound was firm at 13½@13¾c in carlots, whereas prime western lard, New York, was 12.10@12.20c, middle western around 12c, and city lard 11¾c.

Southern weather conditions were reported as unfavorable for planting cotton, with temperatures rather low, and heavy rainfall at times, but little or no uneasiness is noticeable as yet. Tallow was steadier at nine cents sales New York for extra while stearing after selling at extra, while stearine, after selling 10%c, was 11c asked.

The weekly weather report summary, id: "The soil and weather conditions said: were generally favorable for the prepara-tion of land for cotton in the more Northtion of land for cotton in the more North-ern cotton growing districts, particularly in Oklahoma, most of Arkansas and Tennessee. Farm work made fair to good progress in North Carolina although it was still backward. Weather was gen-erally unfavorable for cotton in the Cenerally unfavorable for cotton in the Central and West Gulf coast sections where it was abnormally cool and frequent rains delayed farm work. Considerable cotton had been replanted in Southern Georgia and not much planting had been done in Mississippi. Early cotton was injured in Louisiana and that in Texas was reported in poor to fair condition. The weather was feverable in the cotton districts of was favorable in the cotton districts of Arizona where the crop was coming up nicely and some cotton was planted in Southern New Mexico."

COTTONSEED OIL.—Market transactions.

		I nu	112	day, N	narch	29,	1923.	
				Sales.	Ran High.	Low.	Bid.	Asked.
Spot							1145	a
Apr.	** * *			300	1150	1150	1145	a 1159
May				5700	1160	1146	1152	a 1153
June				500	1155	1155	1155	a 1160
July				14200	1169	1153	1160	a 1161
Aug.				400	1159	1157	1159	a 1161
Sept.				11200	1161	1149	1157	a 1158
Oct.				1600	1051	1039	1042	a 1049
Nov.							945	a 970
PP2 -				A	. 31	04		07 400

Total sales, including switches, 35,100. Prime Crude S. E., 1025c sales.

Friday, March 30, 1923. Holiday.

Saturday, March 31, 1923.

					Sa	le	S	H	Fig	21	ar h.	ng]	E	0	V	V.	Bid.	A	ng— sked
Spot	,																1100	a	
Apr.									0				,				1120	a	1160

May									
June							1139	a	1142
July				4400	1156	1145	1145	a	1146
Aug.					1147	1146	1144	a	1146
Sept.				1900	1152	1141	1140	a	1142
Oct.				500	1035	1029	1026	a	1030
Nov.									
To	tal	sal	les,	inclu	ding	swite	ches.	10	0.400.
Prim	e C								

					n	Ц	O I	nday, i					
								Sales.	-Ran	gen	-Cle	isc	ng-
-								Sales.	High.	Low.	Bid.	A	sked.
Spot						a						a	
May								2700	1147	1136	1145	a	1147
June											1145	a	1150
July								10300	1151	1142	1149	a	1151
Aug.									1150	1143	1148	a	1150
Sept.								800	1147	1140	1146	8	1148
Oct.							٠	1200	1040	1028	1037	a	1041
Nov.								200	940	940	940	a	950
To	tal	l	1	38	al	le	S	, inch	iding	swite	ches,	10	6,500.
Prim	е	C	T	u	d	le	,	S. E.,	10124	c no	minal		

					Sales.	Ran	ge-	Cle	osi	ng
Class					saies.	rugn.	Low.	Bia.	A	skea.
Spot										
Apr.								1150	a	1175
May					2000	1165	1151	1160	a	1164
June								1160	a	1165
July					8100	1172	1155	1164	a	1166
Aug.					500	1165	1155	1162	a	1164
Sept.					4200	1166	1153	1160	a	1161
Oct.					4000	1067	1040	1055	a	1057
Nov.					700	965	955	961	a	965
Tot	tal	88	le	38	. inclu	iding	swite	ches.	20	0.700.

				Sales.	Ran	ge-	-Cle	osi	ng-
				Sales.	High.	Low.	Bid.	A	sked.
Spot							1175	a	1225
Apr.							1170	a	1200
May				700	1175	1170	1169	a	1172
June							1170	a	1175
July				4300	1180	1175	1175	a	1177
Aug.		:		500	1180	1177	1174	a	1176
Sept.				2900	1175	1168	1169	a	1171
Oct.				1100	1070	1065	1065	a	1068
Nov.				600	978	973	972	a	975
Tot	al	sa	les	, inclu	iding	swite	ches.	16	.500.
				S. E.,			,		

Thursday, April 5, 1923.

	*Open.			-Clo	sing
	*Open.	High.	Low.	Bid. A	sked.
April					
May					
June					
July					
Aug	.11.78	11.95	11.85	11.88	11.89
Sept	. 11.76	11.88	11.74	11.77	11.78
Oct	.10.70	10.80	10.70	10.70	10.72
Nov	. 9.77			9.77	9.75
*Bid.					

SEE PAGE 43 FOR LATER MARKETS.

COCOANUT OIL.—A steady to firm tone featured the market, with trade moderately active, a firm market, with trade moderately active, a firm market for copra continuing a feature, while a heavier tone in cake made for a holding tendency on the part of oil producers. At New York Ceylon type in barrels was quoted at 10½ 01%c, tanks coast 2001/cc. Cochin type heavier.

type in barrels was quoted at 10½@10%c, tanks, coast, 9@9¼c; Cochin type, barrels, New York, 10¾@10%c; tanks, 9%c; edible, bbls., New York, 11@11¼c.

SOYA BEAN OIL.—The past week or ten days has seen more activity in this market, with a liberal trade on the coast in April oil, and a moderate trade in the east for deferred shipment with butter manufacturers and point interests reported. east for deferred shipment with butter manufacturers and paint interests reported as buyers. Offerings were lighter, and the market steadier. Oriental oil in bulk, April-May, was reported to have sold at 7.65c, c. i. f. New York, and 7.55c asked for June-July. At New York crude in barrels was quoted at twelve cents, blown 12%, @13c and Pacific coast tanks 10% @10½c. PEANUT OIL.—Limited supplies continue to feature this market, and buyers and sellers remain apart in their ideas and

and sellers remain apart in their ideas and with little or no nearby oil available, there was little feature to the market. Domestic crude oil was quoted at 13@13½c, f. o. b. mills in tanks, and refined barrels, New York, 17½c.

CORN OIL.—The undertone here was barely steady with a good deal of attention being directed toward cottonseed oil, and with demand more moderate. Crude and sellers remain apart in their ideas and

barely steady with a good deal of atention being directed toward cottonseed oil, and with demand more moderate. Crude in barrels, New York, was quoted at 12½c, tanks Chicago 10½c, refined, barrels, New York, 13¼@13½c, and in cases, \$12.13.

PALM OIL.—Demand for Lagos from tin-plate interests resulted in a more or cless steady tone in this market, with offerings well held, offsetting the tallow situation. Soapers absorbed fair amounts of tallow, bringing about a firmer undertone. At New York Lagos spot was quoted at 8¾c, shipment 8½c, Niger casks, spot, 8½c, shipment 8½c, Niger casks, spot, 8½c, shipment 8½c.

PALM KERNEL OIL.—Steady foreign markets resulted in a more or less steady position here, though interest was quiet, and prices were quoted at 9¾@10c in casks.

COTTONSEED OIL .- Demand quiet to rices firm; P. S. Y. spot, barrels, New York, 12¼c; bleachable tanks, f. o. b. mills, 10¾@11c; southeast crude, 10¼c sales; Valley, 10¼c nominal; Texas, 10½c nominal;

The Procter & Gamble Co.

COTTONSEED OIL

, Prime Winter Yellow , Prime Summer White Jersey Butter Oil Aurora, Prime Summer Yellow

Refineries

[Vorydale, O. Port Ivory, N. Y. Kansas City, Kan. Macon, Ga. Dallas, Texas]

Puritan, Winter Pressed Salad Oil White Clover Cooking Oil Marigold Cooking Oil Sterling, Prime Summer Yellow

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BROKERS EXCLUSIVELY

VEGETABLE OILS

In Barrels or Tanks

Hardened Edible Cocoanut Oil

COTTON OIL FUTURES

On the New York Produce Exchange

1923.

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FEBRUARY SWEDISH OILS.

An important factor affecting the vegetable oil trade is the unsettled politico-economic condition in Central Europe, which appears to have brought about, to a certain extent at least, a shift in the market from which Sweden obtains its raw settly in the properties of the condition of the condi

certain extent at least, a shift in the market from which Sweden obtains its raw materials for vegetable oils, especially in that some of the edible fats and oils and raw materials which came from Germany appear to be imported from Holland. Considerable shipments of copra are still being shipped from Hamburg, but Holland appears to be becoming more and more a supplier of raw products, particularly for the margarine factories in Sweden. The price of vegetable oils has shown a gradual upward tendency and rose on an average of 5 ore kilogram. A prominent importer of vegetable oils estimated that the total production of margarine in Sweden in 1922 was 16,000,000 kilos and it is said that the production and consumption of margarine tended toward pre-war figures which averaged about 25,000,000 kilograms annually. The importations of copra during the month of January were practically four times those for the same month of 1922, according to a report to the U. S. Department of Commerce. The importations of vegetable oils showed a decided decrease.

CUBAN SOAP MANUFACTURE.

About 60 per cent of the soap manufactured in Cuba consists of the yellow laundry variety. Tallow used in the manufacture of this soap is bought locally or imported from the Argentine, or from the United States—the most coming from the latter country. Grease used in the manufacture of this soap is imported in tank cars from various parts of the United States, via the Florida East Coast all rail route, and to a lesser extent is purchased from domestic slaughter houses.

About 10 per cent of the soap manufac-

About 10 per cent of the soap manufac-tured in Cuba consists of perfumed toilet soap manufactured from the best grades of imported oils and fats. Practically all of the material which enters into the manufacture of this grade of soap has to be imported.

be imported.

The bulk of the remainder of Cuban manufactured soap consists of the white floating variety which is manufactured principally from coccanuts, cottonseed and other vegetable oils, practically all of which are imported.

There is a movement on foot to increase

There is a movement on foot to increase the tariff protection on soap, especially on perfumed toilet soaps in solid or liquid form. In view of the 40 per cent tariff preferential in favor of American soaps of this class, it is predicted that such an increase in the duties would effectively stop the importation of French and other European perfumed toilet soaps.

SOUTHERN MARKETS.

New Orleans.

New Orleans.

(Special Wire to The National Provisioner.)

New Orleans, La., April 5, 1923.—Prime crude cottonseed oil was steady at 10½ cents, offerings and stocks light. Refined cottonseed oil meal was lower with 7 per cent quoted at \$38.50; 8 per cent, \$41.50. Hulls were higher with loose at \$15.00 and sacked at \$18.00, all f. o. b. interior points.

Memphis.

(Special Wire to The National Provisioner.)
Memphis, Tenn., Apr. 5, 1923.—Crude cottonseed oil was firm at 10½c bid in the valley, but there was no trading. Fortyone protein meal was quoted at \$41.00; loose hulls at \$16.00 Memphis. Most mills this territory are closed down and sold this territory are closed down and sold

JANUARY MARGARIN STATISTICS.

The following are the figures of actual production of margarin in the United States, for January 1923, with compari-

THE AMERICAN COTTON OIL COMPANY

65 Broadway, New York

Cable Address "AMCOTOIL"

Union Pure Salad Oil

Union Choice Butter Oil Refined Corn Oil I. X. L. Cooking Oil

Refined Cocoanut Oil

Cottonseed Cake

Cottonseed Meal

Refined Peanut Oil Cotton Linters

Wilcox Lard **Boar's Head and Cottolene FAIRBANK'S Shortenings**

FAIRBANK'S Soaps and GOLD DUST Washing Powder



GRASSO'S

"Original Holland" Margarine Machinery

Sold in America only by the

A. H. BARBER CREAMERY SUPPLY CO.

Grasso's Famous Table Worker 316 W. Austin Ave. CHICAGO, ILL.

sons, as reported by margarin manufacturers to the U.S. Department of Agriculture.

The reports of the Bureau of Internal Revenue are estimates based on the value of stamps sold during the month.

UNCOLORED MARGARIN.

Exclusively animal	January, 1922. Pounds. 7,010,293	January, 1923. Pounds. 22,780 9,392,532 10,484,353
COLORED MARC		20,200,000
Exclusively animal	138,485	224,960 652,800
Total	16,434,778	20,777,425

INTERSTATE COMMERCE CASES.

Complaints made recently to the Interstate Commerce Commission and decisions rendered by the commission in cases of interest to meat packers are reported as follows:

follows:

Rates on Lard Substitutes.—Examiner
F. W. McM. Woodrow has proposed dismissal of the complaint in No. 13969,
Southern Cotton Oil Company vs. DirectorGeneral, as agent, holding that class rates
or lard substitute from Bayonne, N. J.,
to Boston, Mass., were applicable and not
unreasonable. The fifth-class rate of 25½
cents was paid on all shipments except
three which were undercharged 3 cents,
the examiner said. The shipments involved—23 carloads—moved in the periodbetween March 28, 1919, and February 9,
1920. 1920

Rates on Lard Substitutes.—An award of reparation has been recommended by Examiner T. John Butler in a tentative report on No. 14199, Armour & Company vs. Director-General, as agent, on a finding that a class B rate of 56.5 cents per 100 pounds charged on carload and less-than-carload shipments of lard substitutes, shipped from Chattanogra Tenn to Charletteeville Va Chattanooga, Tenn., to Charlottesville, Va..

was unreasonable to the extent that it exceeded 31.5 cents on the carload shipment and 34 cents on the less-than-carload shipment. At the time the shipments moved there were published commodity rates of 31.5 cents, carloads, and 34 cents, less than carloads, from Chattanooga to Washington, carloads, from Chattanooga to Washington, D. C., a distance of 715 miles, and to Alexandria, Va., 707 miles. Charlottesville is directly intermediate to Washington and Alexandria, being 603 miles from Chattanooga. The defendant contended the rates to Washington and Alexandria were paper rates and that there had never been any movement under the published rates to those points.

movement under the published rates to those points.

Lard Substitute Reparation.—A finding of unreasonableness and an award of reparation have been recommended by Examiner I. L. Koch, in a report on No. 14396, Interstate Cotton Oil Refining Company vs. Si. Louis Southwestern et al., as to the rate of 54 cents charged on lard substitutes, salad and cooking oils, in carloads, between August 26, 1920, and June 28, 1922, from Sherman, Tex., to Shreveport, La., which, he said, was unreasonable to the extent it exceeded 44 cents as claimed by the complaining shipper. The examiner said the Commission, in Texas Refining Co. vs. A. & V., 32 I. C. C. 192, had found that lard substitute should take the same nates as packinghouse products, from rates as packinghouse products, from Texas points of origin, and that that decision should control in this case, because no good reason appeared for discarding the packinghouse product scale rates on ship-and goats, and 20 cents on horses and ments from Sherman to Shreveport.

ments from Sherman to Shreveport.

Rates on Nitrate of Soda.—Examiner H.

W. Johnson has recommended an award of reparation in No. 13881, Armour Fertilizer Works vs. Director-General, as agent, on a proposed finding that a rate of 54 cents per 100 pounds applied on one carload of nitrate of soda, in bags, imported from Chile, shipped on November 14, 1919, from New Orleans to Sturgeon Bay, Wis., was unjust and unreasonable to the extent that it exceeded 40.5 cents, the aggregate of the intermediate rates. the intermediate rates.

FILTER-CEL—A Celite Product

Improves clarity, secures better keeping qualities and reduces operating costs. Write for complete information given in Bulletin EK-40
Celite Products Company New York, 11 Breadway Chicage, 53 W. Jackson M. Mandanet Bild. Calle Products Ltd., Minarianch Bild.

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Supply and Demand

In a short time the demand for <u>Beef Bladders</u> will exceed the supply. Reduce cost of production by buying now.

BERTH. LEVI & Co., INC.

NEW YORK

CHICAGO WELLINGTON, N. Z. 1923,

THE WEEK'S CLOSING MARKETS

FRIDAY'S CLOSINGS.

Provisions.
Hog products were dull and barely steady during the latter part of the week under hedging by packers, continued liberal hog receipts, limited cash trade, easy foreign markets and limited outside speculative interest.

The hog movement keeps up larger than expected. A western estimate indicated 10 per cent more brood sows in the country on April 1, 1923, than a year ago.

Cottonseed Oil.

Cottonseed Oil.

Cottonseed oil was moderately active with undertone strong, prices advancing 47 to 58 from last Saturday's lows, reacting about 10 from the week's highs under realizing and letup in demand from shorts selling on easiness lard. Cash trade was moderate. Cotton planting weather is better. National ginners have estimated the cotton acreage at an increase of from 10 to 12 per cent, possibly 15 with favorable weather. May oil sold 50 over May lard. Southeast crude cottonseed oil was 10% to weather. May oil soid 50 over May lard. Southeast crude cottonseed oil was 10% to 10% cents and Valley 10¼ to 10½ cents. Texas quotation was 10¼c nominal.

Quotations on cottonseed oil at Friday

Quotations on cottonseed on at Friday noon were: May, \$11.75@11.81; July, \$11.75 @11.79; August, \$11.75@11.78; September, \$11.65@11.70; October, \$10.60@10.65; November, \$9.67@9.72.

Tallow.

Extra, 9c.
Oleo Oil and Stearine.
11c; extra oleo oil, 14c.

11c; extra oleo oil, 14c.

FRIDAY'S GENERAL MARKETS.

New York, April 6, 1923.—Spot lard at New York, prime western, \$12.10@12.20.

Middle West, \$11.90@12.00; city steam, \$11.87; refined, continent, \$13.00; South American, \$13.25; Brazil, kegs, \$14.25; compound, \$13.75.

Liverpool Provision Markets.

Liverpool, April 6, 1923.—(By cable.)—Quotations today: Shoulders, square, 58s (\$13.57); shoulders, picnics, 55s (\$12.98); hams, long cut, 87c (\$20.35); hams, American cut, 85c (\$19.89); bacon, Cumberland cut, 71s (\$16.76); bacon, short backs, 70s (\$16.38); bacon, Wiltshire, 65s (\$15.21); bellies, clear, 97s (\$22.91); Australian tallow, 41s 9d to 42s (\$9.73 to 9.79); spot lard, 63s 5d (\$14.78).

Hull Oil Market.

Hull, England, April 6, 1923.—(By cable.)—Refined cottonseed oil, 43s 5d; crude cottonseed oil, 39s (\$10.11-9.09).

ARGENTINE BEEF EXPORTS.

Cable reports of Argentine exports of beef for the week up to April 6, 1923, show exports from that country were as follows: To England, 129,721 quarters; to the Continent, 42,604 quarters; to other ports, none. Exports for the previous week were as follows: To England, 130,541 quarters; to the Continuent 6,729 cm. quarters; to the Continent, 6,372 quarters; to other ports, none.

MARCH STOCKS OF PROVISIONS.

Stocks of provisions at leading centers at the end of March, 1923, with comparisons, are officially reported as follows:

F	ORK, BBL	S.	
	March 31, 1923.	Feb. 28, 1923.	March 31, 1922,
Chicago	25,575	22,946	28.504
Kansas City	5,213	5.774	2.183
Omaha	5,448	4.615	2,202
St. Joseph	*******		
Milwaukee	5,963	6,020	2,235
Total pork, bbls	42,199	39,355	35,124
	LARD. LB		14
Chicago	13,495,496	11.228,711	34,713,563
Kansas ('ity	3.026.001	1,501,640	1,654,795
Omaha	3,656,527	2,651,410	1,470,577
St. Joseph			
Milwauke	1,235,690	1,110,560	1,176,650
Total lard, lbs	21.413.714	16,492,281	39.014.585
CU	I MEATS.		00,000,000
Chicago	124.877.630	114,753,692	86,828,538
Kansas City	66,987,800	59,512,600	41,243,600
Omaha			25,039,854
St. Joseph	11111111	*******	*******
Milwaukee	18,347,000	18,779,000	13,409,000
Total cut meats. Ibs	251 668 492	220.540.986	156.520.992

CANADIAN LIVESTOCK PRICES.

Summary of top prices for livestock at leading Canadian centers for the week ended March 28, 1923, with comparisons, are reported by the Markets Intelligence Division of the Dominion Department of Agriculture as follows:

	Week	Same	Week
	ended	week.	ended
	Mar. 28.		Mar. 22.
Toronto	\$7.75	\$8.35	\$8.00
Montreal (W.)		8.15	7.50
Montreal (E.)	7.50	8.15	7.50
Winnipeg		7.25	6.25
Calgary		5.75	6.15
Edmonton		6.00	6.00
CALA			
	Week	Same	Week
	ended	week.	ended
	Mar. 28.		Mar. 22.
Toronto		812.50	\$15,00
Montreal (W.)		7.25	10.00
Montreal (E.)		7.25	10.00
Winnipeg		11.00	10.00
Calgary		7.00	5.00
Edmonton		7.00	8.00
HOO		1.00	0,00
1100	Week	Same	Week
	ended	week.	ended
	Mar. 28.	1922.	Mar. 22.
Toronto		\$13,75	\$11.00
Montreal (W.)		15.00	10.50
Montreal (E.)		15.00	10.50
Winnipeg		12.00	9.90
Calgary		11.00	8.91
Edmonton		11.00	9.90
		11.00	0.00
LAM			
	Week	Same	Week
	ended	week,	ended
	Mar. 28.	1922.	Mar. 22.
Toronto		\$16.00	
Montreal (W.)		11.00	
Montreal (E.)		11.00	
Winnipeg		12.00	
Calgary	11.50	12.00	
Edmonton	10.50	10.00	11.00

MEAT SUPPLIES AT NEW YORK.

Receipts of western dressed meats and local slaughter under federal inspection for New York City, N. Y., are officially reported for the week ending March 31, 1923, with comparisons, as follows:

Week Cor.

	week		COr,
	ending	Previous	week,
Western dressed meats:	Mar. 31.	week.	1922.
Steers, carcasses	6,093	6,302	7,138
Cows, carcasses	800	1,044	495
Bulls, carcasses	1,117	257	175
Veal, carcasses	9,644	9,212	11,793
Hogs and pigs	3,210	1,858	
Lambs, carcasses	22,581	23,354	23,325
Mutton, carcasses	5,640	7,027	5,287
Beef cuts, lbs		190,512	
Pork cuts, lbs	1,400,286	1,438,912	911,424
Local slaughter, Federal ins	pection:		
Cattle	10,554	9,723	9,544
Calves	19,942		*****
Hogs	56,316	54,150	45,372
Sheep	33,963	33,684	34,386

MEAT SUPPLIES AT PHILADELPHIA.

Receipts of western dressed meats and local slaughter under city and federal inspection at Philadelphia, Pa., are officially reported as follows for the week ending March 31, 1923, with comparisons:

	Week		Cor.
	ending	Previous	week.
	Mar. 31	week.	1922.
Western dressed meats:			
Steers, carcasses	2,362	2,474	2.374
Cows, carcasses	387	480	513
Bulls, carcasses	13	120	107
Veal, carcasses	946	3,368	2,163
Lambs, carcasses	7,517	6,623	6,281
Mutton, carcasses	1,377	1,557	1,486
Pork, Ibs	483,092	378,820	306,727
Local slaughters:			
Cattle	2,014	2,401	2,418
Calves	1.773	2,095	2,562
Hogs		22,635	17,002
Sheep	5,442	4,586	5,637

MEAT SUPPLIES AT BOSTON.

Receipts of western dressed meats and slaughter under federal and city inspec-tion at Boston, Mass., are officially report-ed as follows for the week ending March 31, 1923, with comparisons:

or, 1940, with compar.	isons.		
	Week	Previous	Cor.
Western dressed meats:	Mar. 31.	week.	1922.
Steers, carcasses	2,232	2.631	2.872
Cows, carcasses	890	1,761	1,395
Bulls, carcasses	19	79	66
Veal. carcasses	736	926	1,473
Lamb, carcasses	10,210	12,990	11,431
Mutton, carcasses	1,152	930	433
Pork, lbs	150,194	222,594	134,142
Local slaughters:			
Cattle	1,482	1,264	1,36
Calves, carcasses	3,231	3,015	5,409
Hogs, carcasses	21,852	16,010	9,49;
Sheep, carcasses	3,254	3,440	4,173

RECEIPTS AT CENTERS

RECEIPTS	AT CE	NTERS	
SATURDAY,	Cattle	, 1923. Hogs.	Sheep.
Chicago	500	8.000	3,500
Chicago	. 200 800	4,500 14,000	500
St. Louis	. 300	6,000 4,000	1,300
St. Joseph	900	15,500	200
St. Joseph Stoux City St. Paul Oklahoma City Fort Worth Milwaukee	. 200	11,000 500	
Fort Worth	200	600	
Milwaukee Denver Louisville Wichita	. 400	400 200	1,500
Louisville	. 100	1,500	100
Wichta Indianapolis Pittsburgh Cincinnati	200	3,000	
Pittsburgh	. 100	$\frac{1,000}{4,500}$	1,000
Buffalo	. 200	3,000	100
Nashville	. 100	2,000 1,300	500
AULUMEU	. 100	400	200
MONDAY,	Cattle.	1923. Hogs.	Sheep.
Chicago	23,000	54,000 22,000	24,000 10,000
		14,000	13,000
St. Louis	3,300 2,200	18,000 11,000	9,000
Omana St. Louis St. Joseph Sioux City St. Paul	2,000	7.000	600
St. Paul Oklahoma City Fort Worth	1.000	8,000 2,000	400
Fort Worth	1,200	2,500	200 100
Donnon	1 400	500	8,300
Louisville		$\frac{2,000}{1,500}$	200 100
Indianapolis Pittsburgh Cincinnati	1,400	5,000	100
Cincinnati	1,500	8,000 2,000 13,000	4,000
Buffalo Cleveland	2,000	13,000 6,000	8,400 400
Mashville		2,200	*****
Toronto	2,100 APRIL 3,	2,000	100
	Cattle.	Hogs.	Sheep.
Chicago	10,000	24,000 18,000	20,000
Kansas City Omaha St. Louis	9,000	17,000	6,000 8,000
St. Joseph	3,300	13,000 7,000	3,000
		14,000	300 160
St. Paul Oklahoma City Fort Worth Milwaukee	2,200 1,000	12,000 1,500	100
Fort Worth	1,500	$\frac{3,000}{2,500}$	200
		4,800	8,000
Louisville Wichita	200	2,000 1,200	200 100
Indianapolis Pittsburgh	200	9,000	100 500
Cincinnati	500	$\frac{1,500}{3,000}$	-100
Buffalo	200	3,000 2,500	1,500
Nashville	100	1,600	*****
TorontoWEDNESDA	Y, APRIL	1,400 4, 1923.	
	Cattle.	Hogs.	Sheep.
Chicago Kansas City	7,000 5,000	20,000 14,000	5,000
Omaha	8 500	14,000 18,000 16,500	8,500
St. Louis St. Joseph Sioux City St. Pani	2,500 2,700 2,200	8,500	3,000
St. Paul	2,200	14,000	1,300
St. Paul Oklahoma City Fort Worth Milwaukee	800	16,000 2,500	
Milwaukee	1,000	3,000 1,000	100
Milwaukee Denver Louisville	700	900 1,600	2,700 100
Wichita	300	1,100	
Wichita Indianapolis Pittsburgh	1,000	8,000 2,000	100 500
		4,200 3,500	300
Buffalo Cleveland Nashville	200	4.000	1,000
Nashville	1,600	1,800 2,400	400
	Y. APRIL	5. 1923.	400
CT. 1	Cattle	Hogs.	Sheep.
Kansas City	9,000 3,000 4,300	25,000 8,000	15,000 3,000
Omaha	4,300	19,000 13,500	7,000 560
St. Joseph		6,000 12,000	3,000
Sioux City	1,800	12,000 9,000	190 100
St. Paul	400	1,500	200
		2,000 1,500	200
Denver	700	2,200 6,000	4,600
Pittsburgh	100	2,300 5,200	1,000
Cincinnati			100 800
FRIDAY	APRIL 6	. 1923.	
Chicago	Cattle. 7,000	Hogs.	Sheep. 10,000
Kansas City	1,500	7.000	2,000
St. Louis		14,500 14,000	7,000 200
St. Joseph	2.000	8,000 16,000	4,000 500
St. Paul Oklahoma City	1,100	9.500	300
FORT WORTH	1.000	2,000 2,200	300
Milwaukee	200	1,000	100
Indianapolis	800	5,000	6,400
Pittsburgh	100	3,500 5,000	$\frac{1.500}{2.100}$

100 1.500 2.100 7.200

NEW YORK LIVESTOCK.
The following are the receipts for week

enumg Saturday,	Marc	H 91, 1	940.	
Jersey City New York Central Union	Cattle. 3,300 1,094 3,518	Calves, 9,746 4,116 1,784	Hogs. 11,523 23,006	Sheep. 13,060 26 16,505
Total for week Previous week	8,912 8,924 7,909	15,646 13,694 13,535	34,529 36,495	29,591 39,189

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Proper Buying of Livestock Is the First Source of Profit

ORDER BUYERS Bob Sundheimer & Co. National Stock Yards, Ill.

Cattle Calves Hogs Sheep Lambs

Local and Long Distance Phones: Bell. East 814 Kinloch, St. Clair 886-R References: National Stock Yards, National Bank, and our customers

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C. F. Kramer Co.

Established 1890

U.S. Yards, Indianapolis, Ind.

Buvers of Hogs on Commission

Reference: Live Stock Exchange Bank

J. W. MURPHY **OMAHA**

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SPECIAL ATTENTION GIVEN YOU WILL BE PLEASED

> 6 COMPETENT BUYERS 7 ASSISTANTS

We Handle Hogs Only Utility and Cross Cypher

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JOHN HARVEY & CO.

Order Buyers

Cattle Exclusively

OMAHA, NEB. SIOUX CITY, Iowa

Live Stock National Bank, Omaha Sioux City

Utility Cipher

DENVER REPRESENTATIVES.

We buy

Cattle, Calves, Sheep & Hogs

on commission McMurray & Johnston

LIVESTOCK PURCHASING AGENTS

Indianapolis, Ind.

Established 1900

Cleveland, Ohio

Live Stock KENNETT **Buyers Only**

P. C. KENNETT & SON rbon Stock Yards, Louisville, P. C. KENNETT & SON Union Stock Yards, Nashville, Te

P. C. KENNETT & SON Union Stock Yards, Montgomery, Ala. KENNETT, COLINA & CO. Union Stock Yards, Cincinnati, Ohio

KENNETT, SPARKS & CO. National Stock Yards, E. St. Louis, Ill. KENNETT, MURRAY & DARNELL Union Stock Yards, Indianapolis, Ind. KENNETT, MURRAY & CO. Union Stock Yards, Lafayette, Ind. KENNETT, MURRAY & COLINA M. C. Stock Yards, Detroit, Mich.

Hog Buyers Exclusively

National Stock Yards. III.

-References National Stock Yards National Bank Drovers National Bank

Order Buyers

Cattle Calves Hogs Lambs

Henry Knight & Son

Bourbon Stock Yards Louisville, Ky.

Reference: Dun & Bredstre

The National Provisioner

Keeps you posted on

The Men and the Markets

FOREIGN EXCHANGE SITUATION.

E. E. JOHNSTON

Hog Buyers Exclusively

Live Stock Exchange

East Buffalo, N. Y.

Editor's Note-This statement is prepared weekly by the Institute of American Meat Packers from in-formation obtained from The Merchants Loan & Trust Company, Chicago, Ill.

Monetary y. unit. Par value in Value on Par value in Uslue on U.S. money. April 5.
\$ 203 .0000145
\$ 193 .0564
\$.0298
2268 .1999
193 .0275
193 .0637
2288 .0000475
4.866 4.67
193 .0120
193 .0499
4.498 .4875 | Helgium—Franc | 193 |
Czecho-Slovakia—Krone	*
Denmark—Krone	268
Denmark—Krone	268
Finland—Finmark	193
France—Franc	193
Germany—Mark	238
Great Britain—Pound	4.866
Greece—Drachma	193
Japan—Yen	498
Japan—Yen	498
Jugo-Slavia—Krone	*
Netherlanda—Fjorin	402
Norway—Krone	268
Poland—Folish mark	193
Roustan—Gubel	151
Roustan—Gubel	151
Spain—Pesset	193
Sweden—Krone	288
Sweden—Krone	288
Sweden—Krone	288
Sweden—Krone	193
Turkey—Turkish pound	440
Marchan	194
Marchan	195
Marchan	195
Marchan	195
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Marchan	198

"No par of exchange has been determined upon and will probably not be fixed until after the Allies have decided upon all of the requirements from those

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LIVE STOCK MARKETS

(Reported by the U. S. Bureau of Agricultural

Union Stock Yards, Chicago, April 5. With liberal receipts of 23,000 cattle estimated for the local run on Monday, beef steers and yearlings met price declines of 15 to 25c, choice 1,200 to 1,400-lb. steers topping at \$10.00 on that day. Butcher she stock showed little price fluctuation while bologna bulls were weak to 15c lower and veal calves around steady.

Under moderate receipts during the following days of this week, all price declines have been erased and in the case of better grades of matured beef steers and best weighty yearlings, gains of 10 to 15 and even 25c are noted on Thursday's session, while for the week veal calves show rather spectacular advances of 50c to \$1.00 and in instances much more especially on plainer light kinds which were selling at \$6.50 to \$8.00 on last week's close, this being the low spot for the season to date. Stockers and feeders during the week to date show very little price fluctuation with a tendency toward a lower market as Thursday's session closed.

All classes and grades of hogs show price advances with butchers mostly 35 to 45c higher, light hogs 25 to 30c higher, packing sows around 25c higher, pigs and light lights a little better than steady.

Fat lambs were on the decline practically all week with old crop lambs selling 25 to 40c lower for the week and fed yearling wethers showing a sympathetic decline. The extreme top for old crop wool lambs during the week was \$14.90. Aged stock under very moderate supply sold around steady with spots strong.

Ten market totals of cattle for the week at 154,000 shows little change from same period last week but about 25,000 over a like period a year ago, while receipts of hogs at 509,000 up to date this week are about 100,000 short of the first four days of last week and 175,000 in excess of arrivals for similar period a year ago. Sheep receipts for the ten markets for this week stand at 183,000 against 194,000 last week and 145,000 a year ago. Locally receipts show only a moderate fluctuation for cattle and sheep while hogs decreased over

During later sessions of the week quality of beef steers showed improvement and shipping orders were rather insistent for the matured offerings paying a top of \$10.40 for 1,340-lb. averages and \$10.35 for 1,450-lb. averages, numerous loads of matured steers having had four to six months' acquaintance with corn going to this outlet at \$9.60 to \$10.25. Weighty well finished yearlings were in demand while under the state of the sta der liberal offerings light and plainer kinds of yearlings both steers and helfers met a draggy outlet as the week closed and prices if changed at all were on the downward trend. Steers with sufficient quality and not fat selling around \$7.50 to \$8.25 usually went to finishers rather than to killers, however, the closing session wit-nessed liberal supplies of these in dealers'

hands with a tendency to lower prices if a week end cleanup was to be effected. Butcher she stock showed little fluctua-tion through the week with a tendency on the part of shippers to take well finished fat cows and heifers at stronger prices. Bologna bulls after a decline of 10 to 15c on Monday rallied and held their own until Thursday when lack of shipping orders

forced prices down 10 to 15c, bulk of meaty bolognas on that day clearing at \$4.85 to \$5.10. Beef bulls while scarce, met a draggy outlet, heavy plain kinds usually selling within a spread of bologna prices.

Veal calves after closing last week at the low time of the ression met rather spec-

low time of the session met rather spectacular price gains until Thursday, plain light and handyweight kinds such as sold mostly at \$6.50 to \$8.00 last Friday cleared at \$8.50 to \$9.50. Packers absorbed the bulk of good and choice 100 to 120-lb. vealers Thursday at \$9.25 to \$9.75; shippers selecting a few up to \$10.50.

Bulk of fat wooled lambs sold this week at \$14.00 to \$14.65 with heavies largely at \$12.50 to \$13.00, while the bulk of clipped kinds made \$11.25 to \$11.90 with heavies sorted out at \$9.75 to \$10.00. Four loads of California spring lambs made \$15.00 with throwouts at \$13.00. A few native springs arrived and sold at \$20.00 to \$25.00, odd bunches reaching \$35.00 to the Greek odd bunches reaching \$35.00 to the Greek trade. Choice 104-lb. clipped ewes made \$8.25, while wooled ewes topped at \$9.00. Aged wethers sold up to \$10.00 with fall

clipped kinds at \$9.00. Selling at the high time for the week to selling at the high time for the week to date, bulk of 160 to 230-lb. hogs sold Thursday at \$8.55 to \$8.70 with bulk of 225 to 325-lb. butchers at \$8.40 to \$8.60; packing sows brought mostly \$7.40 to \$7.60 and desirable 90 to 130-lb. pigs found a fairly active outlet at \$7.00 to \$7.60.

KANSAS CITY.

(Special Letter to The National Provisioner.)

Kansas City, April 4.

Live stock prices are slightly higher this week with average quality of the offerings better than last week. The last two days' offerings of steers and handy weight butcher cattle were especially good in quality. Prime yearlings sold up to \$9.60 and heavy steers up to \$9.50, the bulk of the choice steers sold at \$8.75@9.25, with some dogie and plain southwest steers \$6.50@7.50.

Most of the steers are coming from Kansas, Missouri and Nebraska and they have been full fed grain 4 to 5 months. Prime cows are selling at \$7@7.50. Good to choice cows \$6@7 and the fairly good cows \$4.75@5.85. Canners and cutters are quoted at \$2.75@4. Fat bulls \$3.75@5.50 and veal calves \$7.50@9.25.

Hog prices were steady today with prices higher than Tuesday and slightly lower than the top price of last week. Top price today was \$8.25 and the bulk of the offerings brought \$8@8.20. Extreme heavy hogs sold from \$7.75@8.10. Butcher grades \$8.05@8.25 and light weights \$8.10@8.20. Packing sows sold at \$7.35. Pigs brought \$7.25@7.75.

\$7.25@7.75.

Choice wool lambs are selling at \$13.75 @14.25, clipped lambs \$10.75@11.25 and wool yearlings \$10@13. About 35,000 Arizona spring lambs sold at \$14.50 with a 33 per cent sort to \$12. Native spring lambs brought \$15@15.50. Clipped wethers sold up to \$8.10 and clipped ewes up to \$7.50.

OMAHA.

(Special Letter to The National Provisioner.) South Omaha, Neb., April 4.

Three days' receipts of cattle this week, 24,000 head, were 10,000 heavier than a year ago and quality of the offerings has noticeably improved. Demand for the attractive grades has also broadened apprecially and values in general are quotably 15@25c higher than a week ago.

Best beef steers and yearlings are sell-

ing around \$8.85@9.50, fair to good grades largely at \$8.25@8.75, and the plainer kinds from \$8 down. Cows and heifers have shown fully as much improvement as the beef steers with best beifers quoted at \$7.50@8.50. Veal calves at \$4.50@9.50, and bulls, stags, etc., at \$4.25@7, show little change, as compared with a week ago.

In spite of continued liberal hog supplies the market has shown a tendency to recover from the recent depression and values are unevenly higher than a week ago, with both packers and shippers buythe market was strong to 5c higher. Best light and butcher hogs brought \$8 against \$7.90 last Wednesday and bulk of all the hogs sold at \$7.95@8 against \$7.80@7.90 a week ago.

week ago.

Not much change has been noted in the market for sheep and lambs and values are generally fully steady with the best time last week. Fat lambs are quoted at \$12.25 @14.35, yearlings at \$11.75@13.25 and wethers and ewes at \$7@9.

ST. LOUIS.

(Special Letter to The National Provisioner.) National Stock Yards, Ill., April 4.

Receipts in live stock, March 29 to April 4, inclusive, are: 13,100 cattle, 81,825 hogs, 7.150 sheep.

Moderate receipts in the cattle yards following the draggy and lower tendency characterizing the previous period has served to make much more active trading and to stimulate prices. The top for the week, made on Tuesday on heavy beeves, is \$9.40, and other sales during the period are reported at \$9@9.25, the most of the steers suitable for beef purposes are only medium in quality and the consequence is the bulk ranges from \$7.50@8.50 with the common kinds \$6.50@7.50. The top for the period on yearling steers is \$9.50, with the heifers selling out of the same drove at \$9, the bulk of all light weight yearlings are selling at \$7@9, with the common light mixed lots ranging from \$5@7. Butcher cows are holding up well, the bulk ranging from \$5.25@6.50, fancy cows up to \$7.75, the practical low end remains around \$4.75.

Hog trading remains on a steady to strong basis. Prices are around 15@25c higher than this time a week ago. While the shipping weight kind still sells to the top of the market, good butcher grades are selling close to it and there is likewise a very good demand for heavy hogs. Today's quotations are: Mixed and butchers, \$8.45@8.60; good heavies, \$8.30@8.45; roughs, \$7.25@7.50; lights, \$8.55@8.65; pigs, \$7.25@8.25; bulk, \$8.45@8.60.

The sheep and lamb market is quiet but current prices indicates a steady tone to the trade. Handy weight ewes are bringing \$8.50@9; heavy weights, \$7@8; choice to prime wool lambs, if light, \$14.50@15; medium weights, \$12.75@14.50; good quality clipped lambs, if not too heavy, are bringing around \$12; heavy shorn lambs brought \$9 in the middle of the week. higher than this time a week ago. While

ST. JOSEPH.

(Special Letter to The National Provisioner.)

South St. Joseph, Mo., April 3.

Receipts of cattle for the week to date numbered around 5,400, the run consisting largely of beef steers and mixed yearlings. Monday's trade was active and strong, but Tuesday's trade was slow and weak to a shade lower. Best steers sold \$9.45@9.55, but bulk of sales ranged \$8.00@8.85. Mixed yearlings in load lots ranged \$6.75@8.75, and heifers \$6.00@8.00. Choice cows sold up to \$7.25 and canners down to \$2.50. Bulls are strong to a shade higher, with sales ranging largely \$4.25@6.00, and a few light-weight as high as \$7.50. Calves are steady for the week choice kinds sell. are steady for the week, choice kinds selling at \$8.00. Stockers and feeders were in

ing at \$8.00. Stockers and feeders were in light showing and the market ruled firm for the two days. Sales ranged \$6.25@8.00.

Hog receipts for two days this week totaled around 19,000, which was 2,000 less than last week. The market was under pressure Monday, sales being mostly 20@25c lower. Tuesday's trade was slow with prices steady at Monday's average. Best hogs sold at \$8.05 and bulk of sales ranged \$7.95@8.00. The spread in prices continues very narrow, and few sales were made helow \$7.85. made below \$7.85.

Sheep receipts for the week to date totaled around 10,800, and the market on all killing classes is 25c lower. Best lambs sold at \$14.25, and others ranged down to \$13.75. Clipped lambs sold at \$11.25. Ewes sold \$7.25@8.75. Wethers are quoted \$9.00 @9.75, and yearlings \$11.50@12.75.

-0 SIOUX CITY.

(Special Letter to The National Provisioner.)
Sioux City, Iowa, April 4.

Receipts of cattle have shown a small tendency to increase of late. The market has been a fluctuating one in a variation of around 25 cents per hundred weight, but at this writing is about steady with the finish of last week and the undertone is rather strong. Bulk of supplies are running to beef grades in all stages of corn feeding.

Prime steers, all weights, would sell at around \$9.50 or better, but the best here this week have been a near choice quality at \$9.00@9.25; fair to good grades of cornfed beeves are selling largely at \$8.00@ 8.75; warmed-up grades, \$7.00@7.75, with feeders taking some of the \$7.25@7.50 grades; common and thin light steers, \$6.25@7.00; fancy heifers, corn-fed, up to \$8.50, not many above \$7.50, and the bulk of fat cows and heifers at a range of \$6.00 @7.00; canners and cutters, \$2.50@4.50. A few light to medium steers that have been having some corn are being taken at around \$7.25@7.50, as high as \$7.75 having been reached, but bulk of stock cattle of all weights between \$6.00 and \$7.00. Choice veal calves up to \$11.25. Receipts this week will run about 10,500.

In the hog trade receipts are continuing to come in liberal volume, although there is some dropping off compared with the last weeks in March. Price fluctuations are rather narrow, don't get far away from the \$8.00 mark with bulk on day of this writing at a flat \$7.95. Quality is very good but is spreading out slightly of late. Total this week will be close to 70,000.

Not enough sheep coming to make a mar-ket. Packers are bringing in their kill from other markets. Choice fed lambs are worth around \$14.25, clipped lots around \$11.25. Choice fat ewes about \$8.75.

ST. PAUL.

(Reported by U. S. Bureau of Agricultural Economics and Minnesota Dept. of Agriculture.)

South St. Paul, Minn., April 4. Cattle receipts up to mid-week totaled slightly over 7,000 head, compared with actual marketings of 8,167 for the same period a week ago. With the light supply of cattle and a somewhat broader demand, trade on killing classes ruled strong all week. Present prices are strong to 25c or more higher than a week ago. No choice or prime steers or heifers were offered.

Beef steers, good, \$8.50@9; medium, \$7.50@8.50; common, \$6.25@7.50. heifers, \$5.75@8.25; bulk, \$6@7. Fat cows, \$4.25@7.25; bulk, \$5@6. Bologna bulls, \$4.25@4.75; bulk, \$4.50 or over. Veal Veal calves today, \$7.50@8.50; bulk, \$7.50@

Hog supplies have shown some falling off this week, the total for the first three days being about 35,000, compared with 44,-000 a week ago and 23,000 a year ago. Demand on the part of packers has been comparatively broad, and the market has shown gradual strength, advancing around

(Continued on page 47.)

PACKERS' PURCHASES.

Purchases of livestock by packers at principal centers for the week ending Saturday, March 31, 1923, are reported by The National Provisioner as follows:

CHICAGO.

	Cattle.	Hogs.	Sheep.
Armour & Co	5,381	22,100	16,652
Swift & Co	6,481	20,400	18.688
Morris & Co	5,667	17,300	7.845
Wilson & Co	5,632	19,100	7.929,
Anglo-Amer. Prov. Co	1,536	6,200	
G. H. Hammond Co	2,790	10.500	
Libby, McNeill & Libby	766	*****	
Brennan Packing Co.,	5,600 ho	gs: Miller &	Hart
7,200 hogs; Independent	Packin	g Co., 4.800	hogs:
Boyd, Lunham & Co., 6,6	00 hogs:	Western Pac	king &
Provision Co., 15,200 ho	gs: Rob	erts & Oake.	7.100
hogs; others, 18,000 hogs.			.,

KANSAS CITY.

Armour & Co. Cudahy Pkg. Co. Fowler Pkg. Co. Morris & Co. Swift & Co.	2.647 629 3,192 4,355	Calves. 802 998 4 947 1.004	Hogs. 10,043 8,869 9,636 18,887	Sheen, 5,303 4,430 3,680 7,206
Wilson & Co Local butchers		490 301	14,490 1,858	3,957
	18,643	4,546	63,783	24.743

	10,040	4,046	03,483	24,743
03	IAHA.			
	Cattle			
	and calv	es. H	ogs.	Sheep.
Armour & Co	6,123	22	,805	13,248
Cudahy Pkg. Co	5,713	24	.619	12,482
Dold Pkg. Co	875	7	.770	
Morris Pkg. Co	3,664	15	.552	4,840
Swift & Co	7,292	22	,477	13,122
Higgins Pkg. Co	11			
Hoffman Bros	102			
Mayerowich, Vail	86			
Mid West Pkg. Co	48			
O'Dea, P	11			
Omaha Pkg. Co	60			
John Roth & Sons	70			
So. Omaha Pkg. Co	87			
J. W. Murphy			,556	
Swartz & Co			824	
Lincoln Pkg. Co			1111	
Nagle Pkg. Co	450			
Sinclair Pkg. Co	326			
Wilson Pkg. Co	459			
Others	4		,220	
	4	-07	,220	****
	25,669	106	,823	43,692
ST.	LOUIS.			
	Cattle.	H	ogs.	Sheep.
Armour & Co	3,241		.009	2.244
Swift & Co	2.242		,809	1.877
Morris & Co	337		.918	127
St. Louis Dressed Beef	004		,010	1.21
Co	1,165			
Independent Pkg. Co	455	4	.244	181
East Side Pkg. Co	603		.497	135
Heil Pkg. Co	33		.561	
American Pkg. Co	146		,414	
Krey Pkg. Co	58	4	887	*****
Sartorious Prov. Co	11		403	
Sieloff Pkg. Co	141	1	,231	35
Butchers	8,683	21	.547	331
	17,115	53	,580	4,930
ST.	PAUL.			
		'alum	Hogs.	473
Swift & Co	2.873	7 028	31.135	1 200

Swift & Co	1,861 258 284 18	7,028 4,724 79 127 12	31,135 20,491 48	1,209 1,270
Others	498 5,792 EX CIT	99 12,069 Y.	$\frac{6,408}{11,688}$	
Cudahy Pkg. Co	2,596 2,666 998 50 29 69	Calves. 123 46 39 80 41 42	Hogs. 26,203 27,759 774 21 27,110	Sheep. 1,253 1,537

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ST. JOS	SEPH.	
Swift & Co. Cat Hammond Pkg. Co. 2. Morris & Co. 2. Others 4.	798 466 25,835 253 430 15,469 165 452 13,318	Sheep, 15,500 4,298 2,453 5,445
11,3	367 1,571 62,434	27,690
OKLAHOM	A CITY.	
Morris & Co	169 715 6.192	Sheep. 24 90

Morris & Co	1.009	Calves. 715 559 29	Hogs, 6,192 6,672 227	Sheep. 24 90
	2,136	1,303	13,091	114
CINC	INNA	ΓI.		130
	Cattle.	Calves.	Hogs.	Sheep.
E. Kahn's Sons Co	490	188	3,518	268
Kroger Groc. & Bak. Co.	352	255	1.168	
C. A. Fruend	183	110	230	****
Gus Juengling	198	70		56
J. F. Schroth Pkg. Co.	107		3,241	
H. H. Meyer Pkg. Co	16		2,178	****
J. Hilberg & Son	262		.,	707
W. G. Rehn's Sons	201	7		
Peoples Pkg. Co	124	320		
J. Bauer & Son	191	1111		77.44
A. Sander Pkg. Co			2.460	****
Jacob Vogel & Son			952	****
J. Hoffman's Sons Co			769	****
Lohrey Pkg. Co		* * * *	221	****
Ideal Pkg. Co		****		****
			825	****
J. Schlacter's Sons	****			181
Chrhart & Sons				48
Ehrhart & Sons				30
	* * * *			28
J. Stegner				- 7
	2,124	960	15,362	675
INDIA	NAPOI	JS.		0.0
	attle.	Calves.	Hom.	cu.
	1,102	3.978	Hogs.	Sheep.
Kingan & Co	1 602		8,660	622
Moore	1,000	500	19,165	194
MADOLE			3,098	

Moore		000	3,098	
Ind. About O				
Ind. Abat. Co	1,104	87	3.276	
Armour & Co	92	62	4.124	
Hilgemeier & Bro	3		720	
Brown Bros	123	21	138	- 1
Riverview Pkg. Co	30	13	109	
Schussler Pkg. Co	43		442	
Meier Pkg. Co			365	-
Ind. Prov. Co		46	334	
Worm & Co	112		80	
Miscellaneous	223	214	374	
	4,525	3,921	40,885	_
WI	CHITA			

***	CALA I ZI			
Cudahy Pkg, Co Dold Pkg, Co Local butchers	542 240	Calves. 603 17 20	Hogs. 10,470 4,780	Sheep.
	862	640	15,250	143
DI	ENVER.			
Swift & Co	673	Calves. 225 89	Hogs. 3,705 3,377	Sheep. 1,367 2,097

Miscellaneous	314 390	35	823 1,598	72
	2,056	349	8,503	2,31
MIL	VAUKE	EE.		
	Cattle.	Calves.	Hogs.	Sheep
Plankinton Pkg. Co	925	13,702	8,977	
Swift & Co	47			
The Layton Co			1,593	***
R. Gumz & Co	112		155	
F. C. Gross		54		
Butchers	192	440	131	1
Traders	356	217	23	***
	1 715	14 412	10 970	9

RECAPITULATION Recapitulation of packers' purchases by markets r the week ending March 31, 1923, with comparisons:

Week ending Previous

	March 31.	week.
Chicago	27.253	28,677
Kansas City	. 18,643	18,884
Omaha	25 669	20,070
St. Louis	. 17,115	15,252
St. Joseph	. 11.367	11,104
Sioux City	6.501	6,664
St. Paul	5 709	0,001
Oklahoma City	2 136	2,450
Cincinnati	9 194	2,411
Indianapolis	4,525	5,105
Wichita	862	1,039
Denver	2.056	2,277
Milwaukee	1.715	1.025
	. 1,110	1,020
Hogs,		
Chicago	.163.100	154,700
Kansas City	. 63.783	63,512
Omaha	106 899	76,666
St. Louis	53.580	63.892
St. Joseph	62 424	58,860
Sloux City	. 81.877	66,236
St. Paul	12 060	
Oklahoma City	13.091	13,349
Cincinnati	15 369	15.042
Indianapolis	40.885	45,015
Wichita	15,250	12.595
Denver	8.503	7.243
Milwaukee	. 10.879	8.011
Sheep,	. 10,010	0,025
Chicago	. 51,114	52,856
Kansas City	24,743	26,890
Omaha	43 609	42,809
St. Louis	4 930	6.428
St. Joseph	27 699	29,191
St. Paul	2 479	
Sloux City	2.790	2,918
Oklahoma City	114	32
Cincinnati	675	264

Milwaukee

361 81,877 2,790

, 1923.

Sheep, 15,503 4,298 2,453 5,445

27 600

114

Sheep.

181

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18

33

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Sheep. 145

145

Sheep. 1,367 2,095 25 721

2.318

25

evious veek. 28,677 18,884 20,070 15,252 11,104 6,664

2,450 2,411 5,105 1,039 2,277 1,025

76,666 33,892 58,860 36,236

2,918

HIDE AND SKIN MARKETS

Chicago.

PACKER HIDES .- Two packers sold about 10,500 Feb.-March extreme light native steers at 15c, a steady level with asking prices of the past few weeks. The 4,000 light cows sold yesterday at 14½c included a few Aprils. No further movement noted in branded cows at the new level of 131/2c. No additional sales of local small packers noted at 15 1/2 c. Several bids off 15c are noted for April small packers but refused. Tanners decline to pay more at this time. Natives quoted 18% @ 20c; Texas and butts, 18@19c; Colorados, 17@18c; branded cows, 131/2@141/2c; heavy cows, 15c last paid for Jan.; winter stuff held that figure; buyers talk lower; light cows, 141/4@141/2c paid; bulls, 13c; branded, 1114@13c.

SMALL PACKER HIDES: The undertone hides are much more optimistic regarding their future prospects than at any time since the turn of the year. This feeling is occasioned by the movement in local small packer hides at 15 1/2c for April takeoff registering 11/2c advance over March kill. Prevailing rates on business going now in all weight hides are ranged at 121/4 @121/2c but collectors as a rule have advanced their views on forward movement to 13c delivered Chicago basis. Heavy steers here are quiet and entirely nominal about a 14c plane. Heavy cows and buffs of current mixed quality quoted at 121/2c paid and freely bid with dealers talking up to 13c. Extremes command 131/2c and numerous opportunities to sell are given by tanners, but dealers wish to secure 14c for the mildly grubby parcels and talk slightly higher for strictly grub free lots. Branded country hides are priced at 101/2 @11c for average lots flat basis. Some western extreme light weights are priced up to 12½c flat f. o. b. Bulls are strong in tone and ranged at 11@11¼c asked with stocks small; country packers, 121/2 @131/2c paid as to dates; glues, 81/2c.

NORTHWESTERN HIDES.—Twin Cities markets are passive awaiting further developments. Dealers talk quite strongly and are doing little additional business. All weights quoted 13c asked; heavy hides are held at 12½@13c inside about buyers' views. Lights quoted 13½c asked and paid; bulls, 11c; kipskins, 13½@14c; calfskins, 15@17c; outside for 1st salted lots; horse, \$4.50@5.00. horse, \$4.50@5.00.

horse, \$4.50@5.00.

CALFSKINS.—Calfskins remained quiet following the disposition of the balance of the packer march skins at 18c. City collectors want 17½c and ask that figure firmly. Outside varieties are quoted 17@17½c asked for first salted lots, and about 14@15c for resalted mixed varieties. Deacons 95c@\$1.15; slunks sold to the extent of close to 25,000 packer regulars at \$1.15, or a dime lower. Kipskins are quiet. Packers last sold at 15¼@16c and cities 14@15c for points; good mixed skins made 14@14¼c; bids for 13½c rejected.

MISCELLANEOUS MARKETS — Dry

MISCELLANEOUS MARKETS. — Dry hides continue quiet at 17@18c; horse hides are steady. Renderers are held up to \$5.75 and good mixed at \$5.00@5.25; countries, \$4.50@4.75 asked; packer sheepskins \$3.45@3.60 paid and nominal; small packers range down to \$3.00; shearlings made \$1.12 $\frac{1}{2}$ $\frac{1}{6}$ 1.17 $\frac{1}{2}$ in last movement; pickled skins, \$5.75 $\frac{1}{6}$ 6.00; dry pelts, $\frac{27}{2}$ $\frac{1}{6}$ 30c; hogskins, $\frac{15}{6}$ 25c; strips, $\frac{5}{2}$ 6c.

New York.

PACKER HIDES: Nothing additional in the way of business is reported in city slaughter stock since the 6,000 Jan.-Feb.-Mar. cows sold at 13½c by three killers. Native steers made 19c, as previously noted for December kill at outside houses, largely straight heads. Negotiations are still pending on the fall brands. Killers talk 171/2c for butts and a cent less on Colorados. Winter kill is generally held at the same figures and buyers talk at least half a cent lower. Bulls 12½c paid.

SMALL PACKER HIDES: The undertone to the eastern small packer situation is still strong, with most killers well sold up on their winter goods and not talking on the forward materials as yet. Two cars Brooklyn Jan.-Feb.-Mar. steers made 17c for natives and 15c for brands. Couple cars Canadian winter natives sold at 17c. All weight winter cows are quoted 13½@14c paid and up to 14½c now asked. Spring hides are considered worth a cent more. COUNTRY HIDES: Tanners in the east

are making more strenuous efforts to locate material and are bidding 13½c for excate material and are bidding 13½c for extremes and 12½c for buffs for mixed quality current receipts containing a few grubs in Penn., Ohio, and similar sections. Nothing is available in such quality under 13c and 14c and some of the sellers have advanced their ideas to 14½c basis on extremes. Western lights are quoted 13½c paid and 14c asked. Southern lots quoted at 12@13½c for lights. Canadians sold up to 13c flat for ordinary current receipts. ceipts.

ceipts.

CALFSKINS: Bids of \$2.50 are reported refused for heavy end of N. Y. City calfskins and collectors have advanced their views to \$2.65. Three weight skins last sold at \$1.25@1.40-1.95-2.50. Collectors are inclined to spring their asking levels, owing to the increasing demand and the good quality of fresh skins. Penn. titles, which last sold on a basis of \$1.16, are now held at \$1.25@1.80-2-30. Untrimmed lots are ranged up to 17c. A line of 60,000 Courland calfskins sold at \$1.22 each. Kips \$3@4 nominal. \$3@4 nominal.

FOREIGN WET SALTED HIDES: Busroreign wet salted hines in frigorifico hides has not been resumed with any great freedom following the Easter holidays, as only a lot of 5,000 Swift LaPlatas cows has moved and these were barely steady at 16½c landed basis. Standard Argentine steers last sold at 23c Standard Mortovideo varieties brought 2314 Standard Argentine steers last sold at 23c and the Montevideo varieties brought 23½ @23½ c range. The unsold holdings are of relatively small proportions. Traders confidently expect business to be resumed in some volume before the week end. Frigorifico type hides also continue quiet and are quoted entirely nominal, about

HIDE AND SKIN STOCKS SUMMARY.

Following are the hide and leather stocks on hand March 1, as reported by the U. S. Census Bureau together with comparisons for other months:

	HIDES.		
	Mar. 1.	Feb. 1.	Mar. 1,
	1923.	1923.	1922.
Cattle-Total, pcs	6,771,959	6,384,131	5,761,394
Packer, pcs	3.216,005	3,283,205	
Country, pes	2.079.685	1,750,741	
Foreign, pcs	1.476,269	1.350,185	
Calf and kip, pes	3.716.656	4.086.044	3,770,581
India tanned, pes		74,633	127,779
Horse			269,934
Fronts, pes		127,215	
Butts, pes			
Shanks, pes		47.620	
Goat, pes	7.950.484	8.938,007	7.627.048
Cabrettas, pes		1.079,410	455,972
Kangaroo, pcs		282,578	223,833
Sheep, pcs,		9.188,283	13,044,644
Hog skins, pes		93,849	148,542
Hog strips, lbs		402,470	231,175
Deer and elk, pes			245,396
Buffalo, pes		127.624	157,439
Skivers, pcs		1,814,877	******

19½@20½c for business; frigorifico extremes 17½@17½c. Campos and other common types range at 12@13c. Spot hides are steady with late business in Panamas at 15c and in Commissary goods at 18c, involving about a car each figure.

-0-ST. PAUL LIVESTOCK MARKETS.

(Continued from page 46.)

25c on the average compared with a week

Extreme top on 150 to 170 lb. hogs to-day, \$8.30; bulk, 150 to 300 lb. averages, \$8@8.20; packing sows, \$6.75@7; stags mostly \$5.50; pigs, 80 to 130 lb., mostly \$7.75@7.85.

\$7.75@7.85.
Sheep receipts are very light, fat sheep holding about steady for the week with lambs strong to 25c higher. Best fed lambs are bringing around \$14@14.25; choice shorn, 74 lb. lambs today, \$11.90; 100 to 190 lb. fat ewes, \$7@8.75; bucks. \$5.

A LOUISVILLE.

(Special Letter to The National Provisioner.)

Louisville, Ky., April 4, 1923.

Around 2,000 cattle arrived at this market for the first half of the week. A good portion of the offerings consisted of steers which found a slow and fully 25c lower trade, although several loads brought as high as \$8.50. The nice tidy butcher stock found a good call at unchanged rates, with the medium kinds slow and lower. Cow (Continued on page 48.)

CHICAGO HIDE QUOTATIONS.

(Special Report to The National Provisioner from J. F. Nicolas.)
Chicago, April 7, 1923.—Quotations on hides at Chicago for the week ending April 7, 1923, with comparisons, are as follows:

PACKER HIDES. Week ending Week ending Corresponding

follows:

April 7	23.	Mar.	31, 23,	H.66R	. 1922	
Spready native			1			
steers20	61 22e	20	@21e		@15 1/2e	
Heavy native					CARL!	
	@20c	181	%@19c	13	@ 131/2e	
Heavy Texas			C.00	201	610	
	61 19c		@ 18c	123	@ 13e	
Heavy butt						
branded	62.20		@18c	10	@121/2e	
	6u 19e		W. 196	12	W 12 72 C	
Heavy Colorado	C. 20.		@17c	11	@1156e	
steers17	W180		W 146	11	WELL 720	
Ex-Light Texas	014-		6319.	10	@101/sc	
steers131/2	(a 14c		@13e			
Branded cows131/2	@ 14c		@ 13c	10	@101/2c	
Heavy native	040	4.7	charate.		@10.	
cows15	(6) 10G	15	@15120	11	@ 12e	
Light native	CO. 4 H 3/		6941/0		6111e	
cows141/2	WE 19 75	6	@1414e	-		
Native bulls 131/2			@ 1312c		@ 8c	
Branded bulls 1112			@111/ge		@ 615c	
Chalden to Land			60.180			

Calfakins ... 6718c 6718c 17 617% Kip ... 155/6016c 16 67163/c 15 67153/c Slunks, regular \$1.2561.35 \$1.2561.40 \$1.2961.30 Slunks, hirless, 35 675c 35 675c 35 675c 35 675c Light, Native, Butts, Colorado and Texus steers to per lb. less than heavies.

COUNTRY HIDES.

Wee	k ending	Week	ending ('orres	ponding
					. ICam.
Heavy steers13	6114c	124	6@1316		60 81/2C
Heavy cows 12	16@13%c	12	@ 13e		fu 81/2e
Buffs12	16 @ 13 14 c	12	@13c		€ 8c
Extremes13	@14150	123	3@13 %c		
Bulls11	@11%c	10	4 16 35°		68 GC
Branded11	@11196	10	@101/ge		@ 6e
Calfskins14	@ 15c	15	@16c		@15c
Kip13	@14e	13	@14c		@ 13e
Light calf \$1.	10@1.20		0@1.20		5@1.25
Deacons\$0.	90@1.00		0@1.00		3@1.05
Slunks, regular 60	. @ 75e	50	@60c		@70e
Slunks, hairless. 25	@30c	25		30	@35e
Horsehides\$4.		\$4.5	0@5.00	\$3.00	3@4.00
Hogskins15	@20c	15	@20c	20	@25e

Hogskins ... 15 (200c 15 (200c 27 vice) Prices quoted are f. o. b. Chicago or Chicago freight equalized, for straight carloads or more to tanners. Dealers' price range \(\frac{1}{2} \) \(\text{Q} \) \(2 \) per lb. less. \(\text{SHEEPSKINS}. \)

April

ICE AND REFRIGERATION

ICE NOTES

Messrs. Blidt and Dout are going to erect a new ice plant at North Little Rock, Ark.

Otto Erickson is going to build a new ee plant and cold storage at Aberdeen, Wash.

The City and Fuel Co., Lodi, Cal., is go-ig to make extensive additions to their plant.

The Wills Point Ice Co., Wills Point, ex., has been incorporated with a capital of \$12,000.

The Lone Star Ice Co., San Antonio, Tex., has been incorporated and will erect a new plant.

The Empire State Ice Co., Weehawken, N. J., is going to erect a large ice plant to cost about \$40,000,000.

The Tuscaloosa Railway and Facilities Co., Birmingham, Ala., is going to erect a cold storage plant to cost about \$20,000.

The City Coal and Ice Co., Raleigh, N. C., has been incorporated with a capital of \$100,000 by J. W. Zachary, J. S. Trowd and others.

The Diamond Ice and Cold Storage Co., Fort Worth, Tex., has been incorporated with a capital of \$40,000 by E. F. Strube and others.

The City Ice and Coal Delivery Co., Beaumont, Tex., has been incorporated with a capital of \$20,000 by L. M. Josey and others

The Providence Ice Co., Providence, Ky., has been incorporated with a capital of

\$30,000 by W. B. Snow and F. V. and D. I. Ruckman.

The Valley Produce and Cold Storage Co., Harlingen, Tex., has been incorporated with a capital of \$15,000 by R. H. Cameron and others.

FRANCE EATS LESS FROZEN MEAT.

Two of the largest vessels carrying meat from the Argentine to France are about to convert their refrigerating space into ordipary cargo space, according to a report to the U.S. Department of Commerce from Marseilles. These vessels operate out of Marseilles and their capacity for carrying frozen meat amounts to 12,000 cubic meters out of a total of 55,000 cubic meters on all French merchant ships. This change is considered significant of the diminishing demand in France for imported frozen

ARGENTINE CATTLE INDUSTRY HIT.

The Argentine cattle industry is in a demoralized condition as a result of overproduction due to high prices during the war, according to D. S. Bullock, representative of the U.S. Department of Agriculture just returned from a two years'

of the situation in Argentina.

During the war Argentine cattle raisers kept all female animals for breeding purposes, and a tremendous over-supply for which there is practically no market has

developed. Five and six year old cows in January were selling for less than \$10 a head, Mr. Bullock reports.

A warning is also sounded to American breeders that there is now no market in Argentina for purebred live stock other than for dairy cattle and hogs. Breeding operations in Argentina are at a standstill. Hog prices have dropped about 30 per cent since the war.

"The present depression has been gradually becoming more and more acute during the past two years, following seven years of high prices and unprecedented prosperity," Mr. Bullock says. "Late in 1920 cattle prices began to fall rapidly and by July, 1921, chilled beef steers, which had sold during the boom for the equivalent of \$100 to \$125 per head brought less than \$50. In January this year the quotation was \$38 or approximately \$3 per 100 pounds, live weight. "Since cattle raising is the most important industry in Argentina the cattle crisis has become a political issue and bills are now before the Argentine Congress to regulate more closely the packing "The present depression has been grad-

gress to regulate more closely the packing houses and auction markets to prevent combinations in restraint of trade, and finally to establish a Government-owned

mately to establish a Government-owner packing house.

"Although cattle prices were approximately \$5 per 100 pounds lower in Argentine than in Chicago, figures show only small exports to the United States. With the present tariff of 3 cents per pound and relatively high ocean freight rates it does not seen probable that Argentine beef can compete in United States markets," Mr. Ballock says.

LOUISVILLE LIVESTOCK MARKET.

(Continued from page 47.)

trade was hardly as brisk as the previous week. Stocker and feeder trade was dull and unevenly lower with sales limited.

Prime heavy steers, \$8@8.50; beef steers, \$5.50@8.50; cows, \$2@6.50; feeders, \$6@7.25; stockers, \$3.50@6.50; bulls, \$3.50

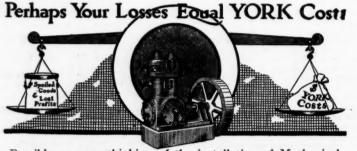
Supply opening day of this week was large, nearly 6,000, but with a good active all-around demand prices held steady although showing a dime gain Tuesday and steady again for the mid-week trade. The local call continues brisk and offerings were readily cleared at the prevailing

Top hogs, 165 lbs. to 250 lbs., \$8.50; 120 lbs. to 165 lbs., \$8.10; 250 lbs. up., \$8.05; pigs, 90 lbs. to 120 lbs., \$6.90; 90 lbs. down, \$5; throwouts, \$6.60 down.

Calf run for the first three days shows a large of the statement of the stateme

Calf run for the first three days shows a falling off compared with the previous week and with a 50c decline Monday, tops are bringing \$9 with medium and common calves slow at unevenly lower prices.

Sheep and lamb receipts have been small with a quiet and steady trade. Best fall lambs \$13 down; best fat sheep, \$6 down. Limited demand at present for spring lambs at \$15 down.



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El Paso—R. E. Huthsteiner, 615 Mills Bidg.
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Los Angeles—Mailliard & Schmiedell.

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Camp St.
Norfolk—Southgate Forwarding & Storage Co.
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Philadelphia—Henry Bower Chemical Mfg. Co.
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THE CLOTHEL REFRIGERATING CO. 61 BROADWAY NEW YORK CITY

SLAUGHTER REPORTS.

Special reports to The National Provisioner show the number of livestock slaughtered at the following centers for the week ending Saturday, March 31, 1923:

				(34	A	I	"1	FLE.		
								7	Week ending Mar. 31.	Previous week.	Cor. week, 1922.
Chicago		 		 					27,253	28,677	30,692
Kansas City		 							23,504	23,517	19,685
Omaha										17,195	13,698
East St. Lo	nis	 	ì		i		i		10,847	10,990	4,425
St. Joseph										8,307	5,198
Sioux City										6,253	4,611
Cudahy									891	718	651
Philadelphia									2,014	2,401	2,418
Indianapolis										1.564	1,517
Boston									1,482	1,264	
New York										9.723	9,544
Oklahoma (lity								3,439	3,967	4,588

Milwaukee 1,332	337	****
HOGS.		
Chicago	154,700	105,226
Kansas City 64,130	63,603	23,506
Omaha 70,991	54,819	40,628
East St. Louis 54,805	62,101	22,313
St. Joseph 55,816	44,924	19,512
Sioux City 46,933	47,933	18,387
Cudahy 18,490	17.046	8,784
Cedar Rapids 12,100	10,400	18,100
Ottumwa 12,516	15,153	8,428
South St. Paul 52,300	52,300	28,998
Fort Worth 9,600	10,100	8,800
Philadelphia 29,359	22,635	17,002
Indianapolis 26,483	25,992	12,210
Boston	16,010	
New York and Jersey City 56,316	54,150	45,372
Oklahoma City 13,091	13,349	10.799
	8,010	9,800
	11,500	15,000
Cincinnati	11,000	10,000

,		
EP.		
57,114	52,856	48,863
25,134	25,925	24,401
	38,471	27,984
	2,604	2,961
21,032	24,034	14,100
2,694	2,762	1,906
342	281	114
5,442	2,095	5,637
236	541	. 241
3,254	3,440	
33,963	33,684	34,386
114	32	198
25	24	
	25,134 40,177 4,835 21,032 2,694 342 5,442 236 3,254 33,963 114	57,114 52,856 25,134 25,925 40,177 38,471 4,835 2,604 21,032 24,034 2,604 2,762 342 281 5,442 2,095 236 541 3,254 3,440 33,963 33,684 114

If you need a good man watch the "Wanted" page.



"Sprarits" Brine nozzles insure better distribution, uniform spray, and uninterrupted service.—For these reasons they have been adopted as standard by most of the leading packers employing the Brine Spray System.

Write for Bullstin No. 3

BINKS SPRAY EQUIPMENT & , 3126- CARROLL AVE, CHICAGO, ILLS.

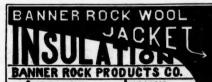
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Freezer and Cooler Rooms for the Meat and Provision Trade Specialists in CORK INSULATION Betails and specifications on request 207 East 43rd St. MOPPOW Insulating Co., Inc. NEW YORK



INDIANA.

FIRE PROOF AND FLEXIBLE FOR TANKS VAT 3- DRYERS BOILERS DANGTHING HOT Write for Information



Chicago Section

Packers' purchases of livestock at Chicago for the first four days of this week totaled 34,145 cattle, 13,115 calves, 78,810 hogs, and 52,083 sheep.

Swift & Company's sales of carcass beef in Chicago for the week ending Saturday. March 31, for shipment sold out, ranged from 7@17.50 cents per pound, averaged 16.62 cents per pound.

Provision shipments from Chicago for the week ending March 31, 1923, with comparisons, 000's omitted, were as follows:

							I	ast wk.	Prev. wk.	Last vr.
	Cured	meats	 						14,517	9,814
	Lard							8,952	11,368	4,407
*	Fresh	meats .		 				20,007	26,288	23,896
	Pork							4	6	3
		d meats							8	9

Chester M. Heinemann has opened a new retail market at 446 W. 75th street. A unique feature of this new enterprise is that it is said to be the only retail market in the country, so far as known, which sells only government-inspected meats. Handsome signs in the market indicate this fact, and inform customers that every piece of meat they buy is protected by the government inspection

A new boiled ham concern will enter the Chicago market on May 1. It is incorporated as the W. E. Seipp Provision Company, and will be located at 1444 West Lake street. They are now putting in the necessary equipment for handling the busi ness. Mr. W. E. Seipp is well known to the Chicago and Eastern trade, having had a wide experience in the selling end. Mr. R. Cyze has been very successful in the operating end of the boiled ham busi ness, and is also well known to the Chi cago trade. Their many friends will wish them much success in their new enter-

MORRIS MEN GO TO WILSON.

More than a dozen executives and department heads of Morris & Company have moved in a body into the offices of Wilson & Co., having been taken into the latter firm: following the formal \$530,000,-000 merger of Armour & Company and Morris & Co

H. P. Henschien R. J. McLaren

HENSCHIEN & McLAREN

1637 Prairie Ave. Chicago, Ill. PACKING PLANTS AND COLD STORAGE CONSTRUCTION

Chas, H. Reimers

Anders & Reimers ARCHITECTS ENGINEERS

314 Erie Bldg. Cleveland, O.

Packing House Specialists

Only one chief executive of Morris & Only one chief executive of Morris & Company will make the change to Wilson. This is C. M. Macfarlane, vice-president, treasurer and a director, who will assume those posts in the Wilson organization. None of the Morris chiefs will go to Armour & Company. Nelson Morris, chairman of the board, and Edward Morris, president, will remain with the consolidated companies until all the loose ends of

Meat Trade Movies-No. 32.



LOOKING FOR A DROP!

The golf season is close at hand, and the vice president of Miller & Hart, Inc., may be vice president of Miller & Hart, Inc., may be seen looking over a last season's score-card, and hoping that figures will be lower this year, whether on holes or hogs. When it comes to figuring, "Dave" Roberton is famous!

the deal are gathered up and are now undecided as to what they will do afterward.
H. A. Timmins and L. H. Heymann, vicepresidents, will retire, and T. R. Buckham,
secretary, will remain with the Morris interests

Virtually all of the plant workers and

F. A. LINDBERG H. C. GARDNER GARDNER & LINDBERG

Mechanical, Electrical, Architectural
SPECIALTIES, Packing Plants, Cold Storage,
Manufacturing Plants, Power Installations, Investigations
1134 Marquette Bidg. CHICAGO

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HIMMELSBACH & SCHLICH ENGINEERS AND ARCHITECTS Specializing in Packing Houses, Abattoirs, Ice Making and Refrigerating Plants. Lard and Fat Rendering Plants, Oil Refineries

136 Liberty Street **NEW YORK**

ARCHITECTURAL & ENGINEERING CO.

WILLIAM H. KNEHANS, Chief Engine ABATTOIR PACKING AND COLD STORAGE PLANTS

Manhattan Building, Chicago, III.

Cable Address, Pacarco

other employes of Morris will be kept by Armour & Company, it is said, at least for the time being.

Some of Important Changes.

Among the more than dozen department heads who are to make the jump to Wilson & Company, and the positions they hold with the Morris plant are:
C. M. Macfarlane, vice-president, treas-

urer and director.

H. S. Bicket, manager provision depart

John W. Paton, dressed beef sales direc-

Fred A. Rochester, director of publicity.
Jack W. Reis, city sales manager.
E. H. Branding, car route manager.

J. R. Stephenson, manager fresh pork department. John Turner, manager sausage depart-

ment.

Ernest Kissling, manager lard depart-

Julius Larson, garage superintendent. J. Feldsine, assistant, provision depart-

L. Purcell, assistant manager casing department

G. W. Peterson, assistant manager property department.
Other department managers who are go-

ing elsewhere are:

A. W. McLaren, traffic manager, will be associated with Chicago Bearing Metal Company as vice-president in charge of

sales.
P. H. Lindstrom, manager of the hotel and cut-meat department, has organized and will be president of his own company to supply the hotel, restaurant and insti-tutional trade throughout the country.

Douglas F. O'Brien, manager of the ammonia department, is now sales manager of the Barret Company, New York.

Where Other Morris Men Go.

Chas. N. Bird, head cattle buyer for Morris & Company, and John M. Nichols, head hog buyer for the same firm, have severed their connection with Morris & Company and become associated with Ralph W. Wright, for 20 years a commission man at the Kansas City Stock Yords, in a general livestock commission business under the firm name of Wright, Bird, Nichols Live Stock Commission Company.

Mr. Bird and Mr. Nichols were with Morris & Company about 28 years. They have been associated together for the past 18 years in Kansas City.

They opened the Morris plant at St.

W. Riley, Jr. BROKER

2109 Union Central Bldg., Cincinnati, 0, Provisions, Oils, Greases and Tallows Offerings Solicited

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M. P. BURT & COMPANY
Engineers & Architects
Packinghouse and Gold Storage DesigningComsultation on Power and Operating Cests,
Guring, etc. You Profit by Our 25 Years' Exgarience. Lower Construction Cost. Higher 206-7 Falls Bldg., MEMPHIS, TENN.

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Por Lar We Mes We Liv

Joe, Missouri, in 1897, and when the Morris plant was built in Kansas City threy bought the first cattle and hogs that were killed in that plant. These men will devote considerable time to looking after eastern order buying trade.

CHICAGO STOCKS OF PROVISIONS.

Stocks of provisions in Chicago at the close of business March 31, 1923, with comparisons, as reported to the Board of

M. pork. new, made since Oct. 1, 1922, bbbs. M. pork. made Oct. 1, 1922, Cherk kinds of barreled pork, bbbs. P. S. lard, made oct. 1, 1922, bbs. P. S. lard, made oct. 1, 1922, bbs. P. S. lard, made oct. 1, 1922, bbs. M. Solver the kinds of barreled pork, bbbs. Defermine Oct. 1, 1922, bbs. Solver the kinds of barreled pork bbbs. Short rh sides, made since Oct. 1, 1922, bbs. Ex. short clear sides, made since Oct. 1, 1922, bcs. Ex. short clear sides, made since Oct. 1, 1922, bcs. Ex. short clear sides, made since Oct. 1, 1922, bcs. Ex. short clear sides, made since Oct. 1, 1922, bcs. Ex. short clear sides, made since Oct. 1, 1922, bcs. Ex. short clear sides, made since Oct. 1,	Trade, are as foll	Mar. 31, 1923.	Feb. 28, 1923,	Mar. 31, 1922.
bbls. M. pork. made Oct. 1. 1921. to Oct. 1. 1922. Other kinds of barreled park. bbls	M. pork. new, made	1020.	1020.	1022.
1922 193	M. pork, made Oct.	862	1,052	252
reled park, bbls. P. S. lard, made since 0ct. 1, 1922, lbs. P. S. lard, made oct. 1, 1923, lbs. P. S. lard, made Oct. 1, 1923 comber kinds of lard. P. S. lard, previous to 0ct. 1, 1922, lbs. Short rib sides, made since 0ct. 1, 1922, lbs. Short rib sides, made previous to 0ct. 1, 1922, lbs. Short clear sides, lbs. Ex. short clear sides, lbs. Ex. short clear sides, made since 0ct. 1, 1922, lbs. Ex. short clear sides, made since 0ct. 1, 1922, lbs. Ex. short clear sides, made since 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made since 0ct. 1, 1922, lbs. Ex. short clear sides, made since 0ct. 1, 1922, lbs. Ex. short clear sides, made since 0ct. 1, 1922, lbs. Ex. short clear sides, made since 0ct. 1, 1922, lbs. Ex. short clear sides, made since 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. star short rib sides by salted shoulders, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. star short rib sides by salted shoulders, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lbs. Ex. short clear sides, made previous to 0ct. 1, 1922, lb	1922		*******	
since 0ct. 1, 1922, 1b. 2, 1923, 1c. 1923, 1c. 1924, 1c. 1924, 1c. 1922, 1c. 192, 1c. 1922, 1c.	reled pork, bbls P. S. lard, made	24.713	21,894	28,252
1922 P. R. Iard. previous to Oct. 1, 1921	lbs	8,704,646	7,396,011	28,572,058
to Oct. 1, 1921 Short rib sides, made since Oct. 1, 1922, lbs. Short rib sides, made previous to Oct. 1, 1922, lbs. Short clear sides, made previous to Oct. 1, 1922, lbs. Short clear sides, lbs. Ex. short clear sides, lbs. Ex. short clear sides, made since Oct. 1, 1922, lbs. Ex. short clear sides, made since Oct. 1, 1922, lbs. Ex. short clear sides, made since Oct. 1, 1922, lbs. Ex. short clear sides, made since Oct. 1, 1922, lbs. Ex. rashort rib sides bry saired short fat backs, lbs. Dry salted shoulders, lbs. Sweet pickled hams, Sweet pickled shinned hams, lbs., sweet pickled bellies, lbs. Sweet pickled skinned hams, lbs., sweet pickled Shinder of hams, lbs., sweet pickled Shinder of hams, lbs., sweet pickled Boston shoulders, lbs. Sweet pickled Shinder of hams, lbs., sweet pickled shinder of ha	1922			
Bos. 3,995,131 1,659,250 121,763	to Oct. 1, 1921 Other kinds of lard Short rib sides, made	4,790,850	3,832,700	5,141,505
1922 lbs 2,510	Short rib sides, made		1,659,250	121,763
made since Oct. 1, 1922, lbs. 642,320 724,715 562,231 Ex. short clear sides, made previous to Oct. 1, 1922, lbs. 162,320 724,715 562,231 Extra short rib sides Dry salted short far backs, lbs. 5,852,971 5,562,050 6,373,237 Dry salted shoulders, lbs. 165,188 236,579 269,993 Ibs. 22,819,857 15,970,678 20,596,495 Sweet pickled hams, lbs. 32,391,704 31,020,290 24,497,168 Sweet pickled belies 9,220,540 11,676,494 8,064,913 Sweet pickled Shoulders, lbs. 12,643,985 9,856,741 6,881,462 Sweet pickled shoulders, lbs. 124,974 191,975 139,950	1922, lbs Short clear sides, lbs.		287,513	$\frac{2,510}{99,101}$
Extra short rib sides Dry salted short fat backs, lbs	made since Oct. 1, 1922, lbs Ex. short clear sides,		724,715	562,231
backs, lbs. 5,852,971 5,562,050 6,373,237 Dry salted bollides, lbs. 165,188 236,579 269,993 Bry salted bellies, lbs. 22,819,857 15,970,678 20,596,495 Sweet pickled hams, lbs. 32,391,704 31,020,290 24,497,168 Sweet pickled bellies, lbs. 9,220,540 11,676,494 8,064,913 Sweet pickled Califf. or pichic hams, lbs. 9,220,540 11,676,494 8,064,913 Sweet pickled Shoulders, lbs. 12,643,985 9,856,741 6,881,462 Sweet pickled shoulders, lbs. 124,974 191,975 139,950	Extra short rib sides	79,644	86,461	
165,188 236,579 269,993	backs, lbs	5,852,971	5,562,050	6,373,237
10,000 1	lbs	165,188	236,579	269,993
Dis 32,391,704 31,020,290 24,497,168 Sweet pickled skinned 24,596,946 26,523,691 12,199,185 Sweet pickled bellies, 9,220,540 11,676,494 8,064,913 Sweet pickled Califf, or picnic hams, lbs.; sweet pickled Boston shoulders, lbs. 12,643,985 9,856,741 6,881,492 Sweet pickled shoulders, lbs. 124,974 191,975 139,950 Other cuts of meats, 124,974 191,975 139,950	IDS	22.819,857	15,970,678	20.596,495
hams. 10s. 24,596,946 26,523,691 12,199,185 Sweet pickled bellies, 9,220,540 11,676,494 8,064,913 Sweet pickled Calift. or pichic hams, lbs.; sweet pickled Boston shoulders, lbs. 12,643,985 sweet pickled shoulders, lbs. 124,974 191,975 139,950 Other cuts of meats, 0 cm 124,974 191,975 139,950	lbs	32,391,704	31,020,290	24,497,168
108. 9,220,540 11,676,494 8,064,913	hams, Ibs	24,596,946	26,523,691	12,199,185
sweet pickled Boston shoulders, lbs. 12,643,985 9,856,741 6,881,462 8weet pickled shoulders, lbs. 124,974 191,975 139,950 0ther cuts of meats, 124,974 191,975 139,950	lbs	9,220,540	11,676,494	8,064,913
ders, lbs 124,974 191,975 139,950 0ther cuts of meats,	sweet pickled Bos- ton shoulders, Ibs	12,643,985	9,856,741	6,881,462
Other cuts of meats, lbs	ders. Ibs	124,974	191,975	139,950
	lbs	12,031,887	10,957,255	6,889,964

Total cut meats, lbs.124,877,630 114,753,692 86,828,538 *In storage tanks and tierces.

	-Rece	eived	-Ship	ped
	1923.	1922.		1922.
Pork, bbls		200	21,782	22,877
Lard, gross weight, lbs	8,005,000	8,698,000	45,728,000	24,443,000
Meats, gross weight, lbs		2,493,000	58,209,000	55,871,000
Live hogs, No. Average weigh				

PORK PRODUCTS IN BELGIUM.

PORK PRODUCTS IN BELGIUM.

The demand for pork products in January 1923 was generally good and prices in dollars remained stable, according to a report to the U. S. Department of Commerce. Prices in francs, however, changed continually with the fluctuating rate of the Belgian franc. The month began with a firm market and a good demand and practically no stocks. The demand for fat backs is calm. Heavy fat backs are in fair demand while lighter ones are neglected. The same is true for clear backs, but prices remain firm and there are no stocks. The market for picnic hams is active, demand being very good and stocks small in spite of the heavy arrivals.

CHICAGO LIVESTOCK.

CHICAGO LI	VEST	OCK.	
RECEIF	TS.		
Cattle.	Calves.	Hogs.	Sheen.
Monday, March 2614,559	3.092	53,332	24,760
Tuesday, March 2711,136	7,742	32,751	16,451
Wednesday, March 28, 9,996	2,124	29,889	10,591
Thursday, March 29.10,307	6,170	36,850	10.631
Friday, March 30 4,645	1.470	36,070	10,192
Saturday, March 31 500	200	8,000	3,500
Total for week 51,143	20,607	196,892	76,125
Previous week53,517	16,015	186,410	67,899
Year ago47,245	20,019	133,540	65,776
Two years ago46,359	18,922	124,211	96,707
SHIPME	NTS.		
Monday, March, 26 2,891	232	11.643	6.334
Tuesday, March 27, 2,487	237	2.892	3,539
Wednesday, March 28 3,182	114	2.634	4,550
Thursday, March 29., 4,095	82	8,275	3,692
Friday, March 30 1.795	142	10,460	3,555
Saturday, March 31 100		2,509	1,500
Total for week 14.550	807	38,404	23,170
Previous week16,366	268	43,589	18,645
Year ago	286	27,720	19,408
Two years ago23,414	347	38.563	27,824
Receipts at Chicago for the			
with comparisons, were as fo			

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																										1	9	2	3.								1	92	2.	
Cattle							,																			7	2	4.	6	0;	2						71	19	.45	87
Calves																										1	8	6,	8	3	3						20	09	.8	07
Hogs										×														. 5	2,	7	4	6,	9	7	3				-	2.	2	19	.40	65
Sheep																										9.	5	6,	5	0	7						93	52	.45	88
Horses																											1	D,	5	0	3						1	12	.58	83
Cars .																·											7	4.	8	6	4						-	68	.5	30
Com	h	iı	1	(4	đ		١	N	64	e	k	b	V		ŀ	H	20	7		r	(1)	("	e	it	t	8		a	t		6	le	v e	n		I	na	rl	ke	ts
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Week	-	01	n	a	i:	n	œ		3	N	a	r	y.	h			21	١								7	Q:	5	n	O	1				16	1	2	15	01	00

Week ending				10,215,000
Previous week Corresponding Corresponding	week,	1922	489,000	7,507,000 8,551,000
Corresponding				8,905,000
Average 190 Combined reending March	eceipts	at seve	en points f	

ending	5	1	M	ĺ	al	re	el	1		3	1			1	9	2	*	1,		with	e	omi	ari	8	ons:				
								,											1	*Cattl	e.		H	[0	gs.		8	She	ep
Week	6	1	n	đ	i	n	g		3	I	13	r	e	h		:	3	1		174.6	H	0	67	1	.000		2	05.	000
Previo	u	8			V	r	e	1	š											163.0	10	0	63	36	.000		2	12.	000
1922																				150.0	00	0	38	4	.000		1	63.	000
1921	i	ì																		142.6	00	0	36	30	.000		2	16.	000
1920																				152.0	10	0	40)	.000		1	38.	.000
1919																				176.6	10	0	45	54	.000		1	59.	.000
1918	Ċ																			203.0	00	0	50):	3.000		1	16.	.00
1917	i																			146,6	10	0	37	7:	000,		1	62.	000
1916	·	٠																		. 95.0	10	0	33	35	6,000		1	49.	.000
1915																				109.0	10	0	3.	5(.000		1	40.	00
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*Ca				4	1		t	-)	n	12	ı	h	a		1	8	t		Loui	4	and	St		Josep	h	ce	oun	itee

WEEKLY AVERAGE PRICE OF LIVESTOCK. Week ending March 31,8 9,65 \$ 8,20 Sheep. Lambs. Previous week. 8,90 8,20 8,10 813,65 1922 7,75 10,05 9,50 14,30 1921 8,70 9,30 6,25 9,05 1929 12,50 15,20 13,55 18,69 1919 16,60 19,90 14,25 18,75 1918 13,75 15,46 15,40 18,60 1917 11,75 15,45 12,15 14,25 1916 9,00 9,70 8,20 10,30 1915 7,05 6,95 7,50 9,50 1914 8,55 8,80 6,30 7,50 1913 8,25 9,15 6,75 8,65 Average 1913-1922....\$10.40 \$12.20 \$10.00 \$12.90 Following is given the net supply of cattle, hogs and sheep for packers at the Chicago Stock Yards

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19									i										176.	.00	0		454	1.(000		1	5	9.00	0	
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17																			146.						000				2.00		
16																			0.00						000				9,00		

as cattle.

Average 1913-1922.... 112,700 233 \$12.75 \$12.20 *Receipts and average weight for week ending March 31, 1923, unofficial, †Railroad strike curtailed receipts.

																						ttle.	Hogs.
*We	ek		6	+ 9	16	ij	ìx	11	,	M	Įε	11	16	٠į	1	1	3	L	 		. 36	6.500	157.00
Prev	io	u	N		V	v	9	el	k												. 37	7,151	142,82
1922											,										. 30	0.599	105,81
1921																					. 24	2,945	85,64
1920																						7.380	15.01
1919																						6,076	117.61
1918																						3.292	118.70

*Saturday, March 31, 1923, estimated.

Chicago packers' hog slaughter for the week ending March 31, 1923:

Combined receipts at seven points to March 31, 1923, with comparisons:
 1923, with comparisons:
 Cattle,
 Hogs.
 Sheep.

 1923
 2,330,000
 8,551,000
 2,410,000

 1922
 2,174,000
 6,213,000
 2,389,000

 1921
 2,127,000
 6,746,000
 2,282,000

 1920
 2,520,000
 7,272,000
 2,368,000

 2,389,000
 2,388,000
 2,388,000

Armour & Co 2	2.100
	6.200
Swift & Co 2	0,400
	0.500
	7.300
	9.100
	6,600
	5.200
Pehente & Oaks	7.100
	7,200
	4.800
Brennan Packing Co	5.600
Wm. Davies Co	2.200
Agar Packing Co	800
Others 1	8,000
	3,100
Previous week	4.700
	0.100
	5,300
Three years ago 2	2,500

Prices at Chicago, Thursday, April 5, 1923: CATTLE.

Beef Steers		
Med, and heavy wt. (1.100 lbs, up)-		
Choice and prime	19.40@	10.50
Good		
Medium		
Commion		
	1.200	0.00
Light weight (1,100 lbs. down)		40 80
Choice and prime	9.90@	10,50
Good	9.40@	9.90
Medium	1.25@	9.40
Common	6.85@	8.25
	0,000	01.00
Butcher Cattle:		
Heifers, common choice	5.75@	9,85
Cows. common choice	4.40@	8.00
Bulls, bologna and beef	4.65@	6.75
	21000	
Canners and Cutters:		
Cows and heifers	3,50@	4.40
Canner steers	3.75@	5.00
Veal Calves:		
Light and med. weight, med. good and		
choice	8.00@	10.25
Heavy weight, common choice	3.50@	8.75

Top	8.75	
Bulk of sales	8.30@	8.76
Heavy weight (250 lbs. up), med. choice:	8.30@	8.60
Med. weight (200-250 lbs.), med. choice.	8.50%	8.75
Light weights (150-200 lbs.), com. choice	8.40@	8.76
Light lights (130-150 lbs.), com. choice .		
Packing sows (250 lbs. up), smooth	7.40@	
Packing sows (200 lbs. up), rough	7.25@	7.56
Killing pige (120 the down) med choice	6.5060	7 72

HOGS.

SHEEP.

Lambs (85 lbs. down),	med.	prime.	 . \$12.75@14.75
Culls and common			 9.50@12.75
Yearling wethers			 9.75@13.50
Wethers, medium prin			
Ewes, medium choice			
Culls and common			 3.75@ 7.25
Feeding lambs, medius	n cho	ice	 $\dots 13.00@14.25$

Gorman-Brown Engineering Corporation

Specializing in the erection and equipment of

Packing Houses Vegetable Oil Refineries **Preserved Food Plants**

> **Executive Office** Suite 901, Barrett Building, 40 Rector Street

> > **New York City**

Cable Address: "Ernorbrown," New York

Bowling Green 0584

Exclusive Engineers, Architects and Builders of the Chain of Packing Houses and diversified staple Food Manufacturing Plants being established by the Confederated Home Abattoirs Corporation

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Apr

Steer Steer

Chicago Provision Markets

			PRICES.			RIB
Based on	Actual	Carlot	Trading, 1923,	Thursday,	April	M Ju
						86
		Green	Meats.			
egular I	Iams—					LAI
10-12 1	bs. avg.				@171/2	M
	os. avg.		**********		@161/2	Ju
14-16 1	DR. DWC				@1614	Se
	bs. avg.				@16¼ @15¾	RIB
	os. avg.				@15%	M
	Hams-				0171	Ju
	os. avg.				@1714 @17 @17	Se
18-20 1	bs. avg.				@17	
20-22 1	os. avg.				@16	
22-26 1	08. avg.		*********		@141/4	LAI
24-26 I 25-30 I	os. avg.			******	@14 @131/2	M
icnics—	Jo. avg.				@15/2	Se
4-6 1					@ 914	RIB
6-81	bs. avg.				@ 81/4	M
8-10 1	DE. RVE.				@ 81/4	Ju
10-12 I	os. avg.				@ 81/4	Se
lear Bell 6- 8 lt	S. SVF				@191/2	
8-10 It	8. avg		*********		@17	
10-12 1	B. AVE.				@14%	LAI
					@14	M
14-16 1	DB. AVE.				@131/2	Ju
		Pickled	Meats.			RIB
amilan I		1011100				M
egular I 8-10 II	lams— os. avg.				@171/2	Ju
					@16%	Se
12-14 I					600161/2	
14-16 1					@15%	
	s. avg.			******	@1514	LAH
	lams—			19	@151/4	M
					@17	Ju
16-18 lt	s. avg				@1614	Se
18-20 I	s, avg.				@16%	RIB
20-22 1 22-24 1	os. avg.				@14½ @13½	M
	s. avg.		*********		@131/4	Se
25-30 1	08. avg.	• • • • • • • •			@13	200
icnics-						
4- 6 II 6- 8 I	os. avg.				@ 91/2	LAI
	os. avg.				@ 8½ @ 8¼	M
	s. avg.	1			@ 81/8	Ju
lear Bel 6-8 I	ies-				W 078	Se
6-8 1	os. avg.				@171/2	RIB
8-10 1	s. avg.				@161/2	Ju
	os. avg.				@141/2	200
					@14	
					G 10 73	
	D	ry Sa	It Meats			(Sp
xtra rib					@1114	(-p
wtwo ole	0.00					
egular	plates .			81/	@ 8%	1
lear pla	tes			81/4	0 73	pri
			* * * * * * * * * * * * * * * * * * * *		@ 7%	ćut
at Back 8-10 I	06 ave				@ 91/4	8-1
	bs. avg.		*********		@ 9%	171
12-14 1	bs. avg.		* * * * * * * * * * * * * * * * * * * *		@ 9%	
14-16 1	bs. avg.				@10	8-1
16-18 1	os. avg.		*******		@1014	170
	DB. RVE.				@10%	14
lear Bel	ine avg.				@101/2	lbs
					@12%	12-
14-16 1	bs, avg.				@1216	10-
18-20 1	bs. avg.				@12% @12%	
20-25 1	bs. avg.			12	@121/4	pic
	bs. avg.				@12	180
					@11%	ste

FUTURE PRICES.

Official Board of Trade Range of Prices. SATURDAY, MARCH 31, 1923.

LARD-(Per 100	Open.	High.	Low.	Close.
March		11.20	11.20	11.20
May	11.271/2	11.30	11.15	11.20
July	11.45	11.471/2	11.30	11.37 1/2
Sept	11.57%	11.571/2	11.47 1/2	11.50

RIBS-(Boxed 25c more tha	n loose)-	_	
May 9.921/2	9.921/2	9.80	9.80
July 10.32½	10,321/2	10.121/2	10.121/2
Sept			10.421/2
MONDAY, API	RIL 2, 19	923.	
Open.	High.	Low.	Close.
LARD—(Per 100 lbs.)—			
May 11.25	11.35	11.221/2	11.35
July 11.45	11.531/3	$11.37\frac{1}{2}$	11.5234
Sept 11.55	11.671/2	11.55	11.671/2
RIBS-(Boxed 25c more than	in loose).		
May 9.921/2	10.021/2	9.921/2	10.021/6
July 10.25	10.371/2	10.25	10.371/2
Sept 10.621/2	10.621/2	10.621/2	10.62%
TUESDAY, API			
Open.	High.	Low.	Close.
LARD—(Per 100 lbs.)— May	11.45	11.35	11.35
July 11.55	11.60	11.50	11.521/2
July	11.771/2	11.70	11.70
RIBS-(Boxed 25c more than	12.00/2	34.10	11.10
May 10.05	10.35	10.05	10.10
July 10.35	10.45	10.05	10.40
Sept 10.60	10,721/2	10.60	10.70
WEDNESDAY, A			20110
			01
LARD—(Per 100 lbs.)—	High.	Low.	Close.
May 11.40	11.40	11.371/2	11.371/
July 11.57%	11.60	11.571/2	11.5714
Sept 11.75	11.80	11.75	11.7716
RIBS-(Boxed 25c more than	n loose)-	_	
May			10.171/2
July 10.40	10.55	10.40	10.4716
Sept			10.70
THURSDAY, AF	PRIL 5,	1923.	
Open.	High.	Low.	Close.
LARD-(Per 100 lbs.)-			
May	$11.42\frac{1}{2}$	11.45	11.371/2
July	11.65	11.65	11.55
Sept	11.771/2	$11.77\frac{1}{2}$	11.75
RIBS-(Boxed 25c more than		_	
May	*****		
July	10.55	10.55	10.40
Sept	10.85	10.85	10.621/2
FRIDAY, APE	HL 6, 1	923.	
Open.	High.	Low.	Close.
LARD-(Per 100 lbs.)-		** ***	
May 11.32½ July 11.52½	11.45	11.321/2	11.45
Sont 11.52½	11.65 11.80	11.321/2	11.65
Sept 11.70 RIBS—(Boxed 25c more than	11.80	11.70	11.80
July 10,35	10.471/2	10.35	10.471/2
Sept.	10.21 72	10.00	10.70
		*****	-0.10
•			

PORK CUTS AT NEW YORK. al Report to The National Previsioner from H, C. Zaun.)

H. C. Zaun.)

New York, April 4, 1923.—Wholesale prices on green and sweet pickled pork cuts: Pork loins, 20@22c; green hams, 8-10 lbs., 19c; 10-12 lbs., 18c; 12-14 lbs., 17½c; green clear bellies, 6-8 lbs., 19c; 8-10 lbs., 18c; 10-12 lbs., 17½c; 12-14 lbs., 17c; green rib bellies, 10-12 lbs., 17½c; 12-14 lbs., 17c; sweet pickled clear bellies, 6-8 lbs., 14c; 8-10 lbs., 14½c; 10-12 lbs., 14c; 12-14 lbs., 14c; sweet pickled rib bellies, 10-12 lbs., 13¾c; sweet pickled rib bellies, 10-12 lbs., 13¾c; 12-14 lbs., 17; dressed hogs, 14c; city steam lard, 11¾c; compound, 13½c.

Western prices: Pork loins, 8-10 lbs.,

Western prices: Pork loins, 8-10 lbs., 17@17\\(2c\); 10-12 lbs., 16c; 12-14 lbs., 15c; 14-16 lbs., 14c; skinned shoulders, 13c; boneless butts, 21@22c; Boston butts, 15@16c; lean trimmings, 12c; regular trimmings, 9c; spareribs, 10c; neck ribs, 5@6c; kidneys, 5@6c; livers, 3c; pig tongues, 15c; rig tolle, 12@14c. 15c; pig tails, 13@14c.

CHICAGO HOG PURCHASES.

Purchases of hogs by Chicago packers for the week ending Thursday, April 5, 1923, with comparisons, were reported to The National Provisioner as follows:

	Week	Previous	Cor.
	pr. 7.	week.	1922.
	0.600	10,200	10,500
	1.700	6,500	7,000
Swift & Co 1		10,500	8,600
	3,800	10,300	6,100
Morris & Co 1		14.900	
Wilson & Co 16		12,200	9,000
	5,000	6,300	5,000
Western Pkg. & Prov. Co. 1		14.000	
	5,100	7,000	10,800
			4,000
	1,600	6,300	3,500
	2,600	6,300	3,700
Brennan Packing Co		5,300	5,400
	2,900	2,500	2,600
	1,300	500	
	3,700	9,900	6,000
Total10	9,400	121,700	77,900

CHICAGO RETAIL FRESH MEATS

(Corrected weekly by C. W. Kaiser, Sec'y United Master Butchers' Ass'n of Chicago.) Boof

Deci.		
No. 1.	No. 2.	No. 3.
Rib roast, heavy end 30	28	20
Rib roast, light end 35	32	22
Chuck roast 20	18	14
Steaks, round 32	39	25
Steaks, sirloin, first cut 50	40	30
Steaks, porterhouse 70	50	32
Steaks, flank 25	22	15
Beef stew, chuck	15	14
Corned briskets, boneless 22	20	18
Corned plates 14	12	10
Corned rumps, boneless 25	22	18

Lamb.

																										Good.	Com.
Hindqu	11	AI	ŧ	e	r	8					٠						٠			٠						35	25
Legs																										37	28
Stews																		٠								15	13
Chops.		S	h	0	u	k	d	8)																		30	28 13 26
Chops,		8	h	0	u	ılı	đ	e	r				۰												٠	28	26
														ħ	A		21	H	h	^							
														u	•	•	•	•	•	•	•	•	•				
Legs																			۰							22	
Stew																								i		15	
Should																										15 20	
Chops,		ri	b	,	8	I	ıd	1	1	lo	i	a						٠			٠					35	**

Pork.

Loins, whole, own avg	
Loins, whole, 10@12 avg	18 @19
Loins, whole, 12 to 14	17 @18
Loins, whole, 14 and over	
Chops	
Shoulders	
Butts	
Spareribs	@18
Hocks	
Leaf lard, unrendered	
Veal.	

Hindquarters Forequarters Legs Breasts Shoulders

							•	_	•	•	-	•		•	_	•	•		•	•	4	۰	•	٠	•								
Suet			 			۰					٠																						6
Shop	fat																												٠		٠		ğ
Bones	, pe	er	1	0	0		1	b	8				٠	٠	٠						. ,					0	0			٠			q
Calf	skir	18			۰	0	۰	٠		٠	٠	۰			۰	,	٠															- (q
Kips																																	g
Deaco	BS		۰					۰		a	٠			٠	٠		0											٠		0			a



For Tankage, Blood, Bone Fertilizer, all Animal and Vegetable Matter. Installed in the largest packing-houses, fertilizer and fish reduction plants in the world. Material carried in stock for standard

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Ship us a small Consignment and see how much better you can do. Results Calfskins Talk! Information gladly furnished.

CURING MATERIALS.

Bbls.	
Double refined saltpetre, gran 61/4	61/6
Crystals 71/4	736
Double refined nitrate of soda, f. o. b.	
N. Y. & S. F., carloads 41/4	416
Less than carloads, granulated 41/2	4%
Crystals 51/4	51/4
Kegs, 100@130 lbs., 1c more.	
Boric acid, in carloads, powdered, in	
bbls	11
Crystal to powdered, in bbls., in 5-ton	
lots or more	111/4
In bbls. in less than 5-ton lots12	11%
Borax, carloads, powdered, in bbls 51/2	534
In ton lots, gran, or powdered, in bbis. 5%	5%
Sugar-	
Raw sugar, 96 basis, 3c Cuba duty paid	@ 7.50
Second sugar, 90 basis	@ 6.75
Syrup, testing 63 to 65 combined sucrose	
and invert	@24
Standard, granulated, f. o. b. refinery	
(less 2 per cent)	0 9.30
Plantation, granulated, f. o. b. New Or-	
leans (less 2 per cent)	@ 8.75
White clarified, f. o. b. New Orleans	0 00/
(net)	@ 8%
Yellow clarified, f. o. b. New Orleans	0 01/
(net)	@ 814
Salt—	
Granulated, car lots, per ton, f. o. b., Ch	1-
cago, bulk	\$ 9.80
Medium, car lots, per ton, f. o. b., Chicag	0,
bulk	11.30
Rock, car lots, per ton, f. o. b., Chicago.	7.30

bulk Rock, car lots, per ton, f. o. b., Chicago...

1923. April 7, 1923. CHICAGO MARKET PRICES packers pril 5, rted to WHOLESALE FRESH MEATS. 8: Carcass Beef. Cor. week, 1922. 15 @16 14 @15 12 @14 11 12 @15 8 @11 14 @21 @21 @21 Week, 1922, 10,500 7,000 8,600 6,100 9,000 5,700 10,800 4,000 3,509 3,700 5,400 2,600 6,000 77,900 EATS United No. 8. 20 22 14 25 30 32 15 14 18 10 18 Com, 25 28 13 26 26 7 @10 3 @ 5 25 @30 24 @28 7 @10 @ 4 @ 5 8½@10 @ 8 @20 @19 @18 @17 @25 @15 @13 @14 @11 15 @151/4 10 @141/2 22 @24 10 @12 7 @ 8 Brains, each 10 411 Sweetbreads 53 662 Calf Livers 28 632 Calf Livers 28 632 Calf Livers 28 632 Calf Livers 28 632 Calf Livers 623 624 Medium Saddles 629 629 Cholor 620 625 Cholor 6215 628 Lamb Tongues, each 625 622 Lamb Tongues, each 625 625 Lamb Kidneys, per lb 625 622 Lamb Tongues, each 6215 625 Lamb Kidneys, per lb 625 625 Mutton 618 621 Lamb Kidneys, per lb 625 625 Beavy Fores 63 63 Mutton 618 622 Mutton 618 620 Mutton 618 620 Mutton 618 620 Mutton 618 @30 @16 @35 @16 @22 @45 @38 @25 @24 @24 @18 @25 @ 5 @ 2 @ 50 @ 15 @ 14 @ 15

11 111/4 111/4 51/4 51/4

7.50 6.75 24 9.30

8.75 8% 814 9.80 1.30

RKEI PRICES	
DOMESTIC SAUSAGE.	
Fancy pork sausage, in 1-lb. cartons	@22 @15
Fancy pork sausage, in 1-lb, cartons Country style sausage, fresh, in link Country style sausage, fresh, in bulk Country style sausage, smoked Mixed sausage, fresh Frankfurts in pork casings.	@14 @17
Mixed sausage, fresh	@13
Frankfurts in sheep casings	@15
Mixed sausage, fresh. Frankfurts in pork casings. Frankfurts in sheep casings. Bologna in beef bungs, choice. Bologna in beef middles, choice. Bologna in cloth, paraffined, choice. Liver sausage in hog bungs. Liver sausage in hog bungs. Liver sausage in beef rounds. Head cheese New England luncheon specialty. Liberty luncheon specialty. Minced luncheon specialty. Tongue sausage Blood sausage	@14
Liver sausage in hog bungs	@16 @10
Head cheese	@11 @22
Liberty luncheon specialty	@16 @14
Tongue sausage	@19 @14
Souse	@14 @14
DRY SAUSAGE.	G 17
Cervelat, choice, in hog bungs Cervelat, new condition, in hog bungs Cervelat, new condition, in beef middles Turinger Cervelat Farmer Holsteiner B. C. Salami, choice.	@15
Turinger Cervelat	@20
Holsteiner R C Salami choice	@21 @42
Holsteiner B. C. Salami, choice. Milano Salami, choice, in hog bungs. B. C. Salami, new condition. Frisses, choice, in hog middles. Genoa style Salami.	@41 @20
Frisses, choice, in hog middles	@37 @51
Mortadella, new condition	@19
Italian style hams	@39 @37
SAUSAGE IN OU	
Bologna style sausage in beef rounds-	K 75
Large tins, 1 to crate	6.50
Small tins, 2 to crate	7.00
Frankfurt style sausage in pork casings— Small tins, 2 to crate	6.50
Bologna style sausage in beef rounds— Small tins, 2 to crate. Large tins, 1 to crate. Frankfurt style sausage in sheep casings— Small tins, 2 to crate. Large tins, 1 to crate. Frankfurt style sausage in pork casings— Small tins, 2 to crate. Large tins, 1 to crate. Smoked link sausage in pork casings— Small tins, 2 to crate. Smoked link sausage in pork casings— Small tins, 2 to crate.	7.50
Small tins, 2 to crate	7.00
SAUSAGE CASINGS.	
(F. O. B. CHICAGO.) Beef rounds, domestic, 180 sets, per tierce, per	18
Beef rounds, export, 225 sets, per tce., per se Beef rounds, export, 140 sets, per tce., per se	t .22
Beef middles, 110 sets, per tierce, per set Beef bungs, No. 1, 400 pieces, per tce., per per	70
Beef bungs, No. 2, 400 pieces, per tce., per piece	r 17@20
Beef weasands, No. 1, per piece	17
Beer bladders, small, per doz	
Beef bladders, medium, per doz	. 1.75
Beef bladders, medium, per doz. Beef bladders, large, per doz. Hog casings, medium, f. o. s	. 1.75 . 1.40 . 1.25 90
Beef bladders, medium, per dox. Hog casings, medium, f. o. s. Hog casings, menrow selected, 1 1/16" down per lb., f. o. s. Hog casings, regular, 114" down, per lb., f. o.	1.75 1.40 1.25 90 1. 2.00
Beef bladders, large, per doz. Beef bladders, large, per doz. Hog casings, medium, f. o. s. Hog casings, narrow selected, 1 1/16" down per lb., f. o. s. Hog casings, regular, 1½" down, per lb., f. o. Hog casings, medium, 1½ to 1½" down, per lb., f. o. s.	1.75 1.40 1.25 90 1. 2.00 8. 1.75
Beef rounds, domestic, 180 sets, per tierce, per set set rounds, export, 225 sets, per tee., per se Beef rounds, export, 140 sets, per tee., per se Beef middles, 110 sets, per tierce, per set Beef bungs, No. 1, 400 pieces, per tee., per per set of the set of th	
bb., f. o. s	50
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RKET PRICES	BUTTERINE. 1 to 6, natural color, solids, f. o. b. Chi-
DOMESTIC SAUSAGE.	cago
Fancy pork sausage, in 1-lb. cartons. @22 Country style sausage, fresh, in link. @15 Country style sausage, fresh, in bulk. @14 Country style sausage, smoked. @17 Mixed sausage, fresh	cago
Country style sausage, smoked	
Frankfurts in pork casings	Short clear middles, 60-lb. avg
Bologna in beef bungs, choice	Clear bellies, 18@20 lbs. @12½ Clear bellies, 20@25 lbs. @12 Clear bellies, 25@30 lbs. @12
Liver sausage in hog bungs	Rib bellies, 20@25 lbs
New Ungland Inneheas association 200	Fat backs, 10@12 lbs
Liberty luncheon specialty. @16 Minced luncheon specialty. @14 Tongue saussge	Regular plates
New England Interiors specialty (2014) Liberty luncheon specialty (2014) Minced luncheon specialty (2014) Tongue sausage (2019) Blood sausage (2014) Polish sausage (2014)	WHOLESALE SMOKED MEATS.
DRY SAUSAGE.	WHOLESALE SMOKED MEATS. Regular hams, fancy, 14@16 lbs. 223 Skinned hams, fancy, 16@18 lbs. 2244/2 Standard regular hams, 12@16 lbs. 221 Pitter of the control of
	Standard regular hams, 12@16 lbs. @21 Picnics, 6@8 lbs. @13 Breakfast bacon, fancy, 6@8 lbs. @31
Cervelat, choice, in hog bungs	Standard bacon, fancy, 6@8 lbs
Holatoiner @91	Standard bacon, 12@14 lbs
B. C. Salami, choice	Cooked hams, choice, skin on, surplus fat off, smoked
Frisses, choice, in hog middles	Standard regular hams, 12@16 lbs
Mortadella, new condition	off, smoked
Capacola	Picnics, skinned, surplus fat off, smoked @20 Loin roll @40
Virginia style hams@37 SAUSAGE IN OIL.	FERTILIZERS. Ground dried blood
Bologna style sausage in beef rounds— Small tins, 2 to crate.	Unground and crushed blood 3.75@ 4.00 Hoofmeal
Large tins, 1 to crate	Ground tankage, 6½ to 9%
Large tins, 2 to crate	Ground raw bone, per ton
Frankfurt style sausage in pork casings— Small tins, 2 to crate	Ground dried blood. \$ 4.10@ 4.25 Unground and crushed blood. 3.75@ 4.00 Hoofmeal 2.65@ 2.75 Ground tankage, 10 to 11% 3.25@ 3.35 Ground tankage, 6½ to 9% 2.290@ 3.15 Crushed and unground tankage 2.40@ 2.80 Ground tankage, 60 to 10.00 Unground steamed bone, per ton 28.00@25.00 Unground steamed bone, per ton 18.00@25.00 Unground bone tankage 16.00@18.00 Unground bone tankage 16.00@18.00
Smoked link sausage in pork casings— 6.00 Small tins, 2 to crate	HORNS, HOUFS AND BONES.
SAUSAGE CASINGS.	No. 1 horns. \$220.00@3300.00 No. 2 horns. 175.00@225.00 No. 3 horns. 175.00@225.00 No. 3 horns. 100.00@150.00 Hoofs, black and striped. 45.00@ 50.00 Hoofs white 60.00@ 75.00 Grinding hoofs 32.00@ 34.00 Round shin bones, heavies 150.00@160.00 Round shin hones, heavies 150.00@140.00 Flat shin bones, lights and med. 125.00@140.00 Flat shin bones, lights and med. 70.00@100.00 Thigh bones, lights and med. 10.00@150.00 Thigh bones, lights and med. 125.00@135.00 Buttock bones 66.00@ 70.00 Skulls, jaws and knuckles 38.00@ 40.00 Rejected mfg, bones. 55.00@ 60.00 Note—Foregoing horns, hoofs and bones must be assorted, free from grease spots and cracks, hard and clean, uniform as to cut and weight, packed in double
(F. O. B. CHICAGO.) Beef rounds, domestic, 180 sets, per tierce, per set	Hoofs, black and striped
set	Round ship hones, heavies
Beef middles, 110 sets, per tierce, per set70 Beef bungs, No. 1, 400 pieces, per tce., per pce30	Flat shin bones, heavies
Beef bungs, No. 2, 400 pieces, per tce., per piece	Thigh bones, heavies
Beef weasands, No. 1, per piece	Buttock bones
Beef bladders, medium, per doz 1.40 Beef bladders, large, per doz	Note—Foregoing horns, hoofs and bones must be assorted, free from grease spots and cracks, hard and
Hog casings, medium, f. o. s	clean, uniform as to cut and weight, packed in double bags and carload lots, also well and favorably known to foreign and domestic manufacturers.
piece 1.77@20 Beef weasands, No. 1, per piece 1.77 Beef weasands, No. 2, per piece 0.8 Beef bladders, small, per dos 1.75 Beef bladders, medium, per dos 1.40 Beef bladders, medium, per dos 1.25 Hog casings, medium, f. o. 5. 90 Hog casings, narrow selected, 1 1/16" down, per lb., f. o. 5. 2.00 Hog casings, regular, 1½" down, per lb., f. o. s. 1.75 Hog casings, regular, 1½" down, per lb., f. o. s. 1.75 Hog casings, medium, 1½ to 1½" down, per lb., f. o. s. 0.90	LARD (Unrefined).
Hog casings, wide, 11/4 to 1 42/100" down, per	Prime, steam, cash, tierces. 11.32 Prime, steam, loose. 10.57 Leaf, raw 10.75
Hog casings, narrow selected, 1 1/16" and under 100 yds., per bdl. 2.25 Hog casings, regular, 11%" and under 100 yds.,	Neutral lard
Hog casings, regular, 11/8" and under 100 yds., per bdl	Pure lard, kettle rendered, per lb., tcs 13¼@13½ Pure lard, tierces
Hog casings wide, 11/4 to 1 42/100" and under	Barrels. 4c over tierces; half barrels. 4c over
100 yds., per bd1	tierces; tubs and pails, 10 to 80 lbs., 1/4c to 1c over tierces.
Hog casings, extra wide, 1 42/100° and over, per bdl	OLEO OIL AND STEARINE.
Hog bungs, export. .21 Hog bungs, large prime. .14	Oleo stock
Hog bungs, medium	Oleo öll, extra. 13 @134 Oleo stock 114/@12 Prime No. 1 oleo oll. 114/@114/ Prime No. 2 oleo stock 94/@10 94/@10 No. 3 oleo oleo stock 94/@10 94/@10 Prime oleo stearine edible 10 94/@10 No. 2 oleo stearine, edible 94/@10
Hog stomachs, linings, per piece	No. 2 oleo stearine, edible
Regular tripe, 200-lb, bbl	Edible tallow
Pocket honeycomb tripe, 200-lb, bbl. 18.00 Pork feet 200-lb, bbl 15.50	Packers' Prime, loose tallow. 9 (9 94) Packers' No. 1 loose tallow. 84/2 834 Packers' No. 2 tallow. 84/2 834
Regular tripe. 200-lb. bbl 14.00 Honeycomb tripe. 200-lb. bbl 16.00 Pocket honeycomb tripe. 200-lb. bbl 18.00 Pork feet. 200-lb. bbl 15.50 Pork tongues. 200-lb. bbl 70.00 Lamb tongues. long cut. 200-lb. bbl 45.00 Lamb tongues. short cut. 200-lb. bbl 51.00	White, choice grease
CANNED MEATS	TALLOWS AND GREASES Edible tallow 10 @10½
No. ½. No. 1. No. 2. No. 6. Corned beef	Crackling grease
Roast mutton 2.40 4.75 16.50	Crackling grease
Ox tongue, whole 17.50 56.00 Lunch tongue 2.85 4.70 9.50 34.50	VEGETABLE OILS. Cottonseed oil—white, deodorized, in bbls. 134,@134, Yellow, deodorized, in bbls
	reilow, deodorized, in bbls
onions 1.50 2.25 4.25 Vienna style sausage 1.15 2.25 4.15 Veal loaf, medium size 2.00 Chili con carne with, or	Yellow depotenced in Dors 124 @13
Chili con carne with, or without, beans 1.25 Potted meats 80	Linseed oil, loose, per gal
DADDET ED DODE AND DEED	ANIMAI OILS
Family back pork, 20 to 34 pieces. 25.00 Family back pork, 35 to 45 pieces. 25.50	ANIMAL OILS. Prime lard oil
Clear back pork, 40 to 50 pieces. 25.00 Clear back pork, 50 to 60 pieces. 23.00	Extra lard oil. 12½@13 Extra No. 1 lard oil. 12½@13
Clear plate pork, 20 to 35 pieces. 20,00 Clear plate pork, 35 to 45 pieces. 19.50 Bean pork 19.00	No. 1 lard oil. 12 @121/2 No. 2 lard oil. 111/2 @12 Pure partsfoot oil. 121/2 @14
BARKELED PORK 35.00 Mess pork, regular. 25.00 Family back pork, 20 to 34 pieces. 25.50 Family back pork, 35 to 45 pieces. 25.50 Clear back pork, 40 to 50 pieces. 25.00 Clear pate pork, 50 to 60 pieces. 20.00 Clear plate pork, 20 to 35 pieces. 20.00 Clear plate pork, 35 to 45 pieces. 19.50 Bean pork 19.00 Brisket pork 22.00 Plate beef 19.00 Extra plate beef, 200-lb, barrels. 20.00	Prime lard oil
Extra plate beet, 200-lb. barrels20.00	Acidless tallow oll

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Retail Section

QUALITY OF BEEF AND HOW TO TELL IT

Tips for Meat Retailers Who Want to Buy Right

By Emil Hirsh.

that the meat retailer buys and how to judge these accurately are of great importance to the retailer who wants to operate an efficient market. The good points of strictly finished fed beef are not enough to be familiar with, because that constitutes only a very small proportion of the total consumption of beef. The retailer has to know about the beef that has no quality at all just as much as he does about the best beef on the market.

All these matters of such practical value to the retailer were explained in a clear and interesting way in a recent lecture by Emil Hirsh in the series that he is giving for the meat retailers' school at Milwaukee. Previous lectures have been printed in THE NATIONAL PROVISION-ER and many favorable comments have been made on them. This lecture on the "Quality of Other Grades of Carcass Beef" is as follows:

The demands and requirements of the consumers of beef vary greatly in various parts of the United States and in various sections of every city and even so in dif-ferent parts of the city of Milwaukee, ac-cording to the whims and tastes of the many people that make up the total population of the city. As previously men-ticned to you, therefore, these many different requirements of the consumers re-flect themselves into the demands of the retail marketmen through the packer, finally upon the producer and feeder of live cattle. They in turn use their experi-ence in line with their ability to gauge the demands of the consumer by getting ready for the market cattle of such weights and quality as are mostly in demand, and which will gain them the most profitable results.

Of course, different producers and feed-rs of beef cattle have different opinions and different methods of procedure, with the result that different classes of cattle in their various and many stages of finish come to the livestock markets, where they are judged and bought by experienced cattle buyers, for such points of useful-ness and merit as these buyers figure they have. As a result of these various meth-ods of feeding operations, and also as a ous of feeding operations, and also as a result of how well individual cattle may do in the feed lots, many variations of quality of beef cattle make their appear-ance in the beef coolers for the selection of the retail marketman.

Must Know Quality of Beef.

It is, therefore, essential to a successful retail marketman, as it is to every merchant, who must know the merchandise he deals in, to be thoroughly posted to judge the various grades and classes of beef and the quality thereof. But it is not sufficient for you to know only the good points of strictly finished, fed beef of the three most prominent types previously mentioned to you, as that class of beef is, after all, only a small proportion of the total consumption of beef. Beef will range in quality from the types demonstrated to you in their various stages of fuish to a point where cattle may not have any finish whatever, and still such cattle

Variations in the quality of carcass beef find a ready market by such dealers whose trade requirements are for lower costing, even though of poorer quality of beef.

When we speak of finished beef we

when we speak of finished beef we have before us a type of cattle that have had special care and feed for such a period of time as is necessary to bring the animals to the expected standard of weights and quality desired. This period of feeding usually ranges from four months to a year or more.

As demonstrated to you also with the load of Angus yearling cattle bought at the International Livestock Exposition, there are numerous cattle fed by experienced feeders for a period of four months or even less than four months, such cattle being called "short-feds." The quality of such beef will vary from medium to good, and will suit the average consumer, who wants medium to good quality of beef cuts at a more reasonable price than those of the longer fed and finished higher cost

Beef Quality of Grass Cattle.

In addition there are numerous cattle In addition there are numerous cattle that fill a useful purpose as beef cattle that never had any special care or feed, except what grass they were able to pick up in the field or pasture, such cattle being termed "grass cattle." The proportion of grass cattle compared in numbers with of grass cattle compared in numbers with fed and finished cattle sent to the live-stock markets varies at different seasons of the year, starting usually early in the summer, first in the southern parts of the country and gradually traveling northward as the season advances and as grass-becomes more partiful.

becomes more plentiful.

Early in the season the beef produced from these grass cattle is quite inferior and usually unsatisfactory, but as the season advances and the grass contains more substance, the quality improves and the beef quickly reflects this improve-ment. Still later in the season, when grass becomes abundant in the Western States, we obtain a number of beef cattle that are comparatively fat, without hav-ing had any special care or special feed. Such cattle are termed Western or "range" Such cattle are termed Western or "range" Such cattle are termed western or range cattle, and in the past have been a source of a liberal supply of cattle of consider-able quality, and of a comparable reason-able cost to the consumer, but these cattle are becoming less numerous from year to year with the passing of the Western year with the passing of the Western ranches and their splitting up into smaller tracts or farms.

Classes of Beef Cattle.

In summing up, we find the following classes of beef cattle:

- -Long fed cattle.
 -Short fed cattle.
- Grass cattle.
- 4-Western cattle.

These four classes can be subdivided into many other classes, almost as numerous as the cattle themselves, according to weights, kinds and quality.

For the purpose of our lesson we will subdivide these as follows:

Native cattle, steers and heifers. B-Native yearling cattle, steers and

heifers. C-Native grass cattle, steers and

heifers. D-Texas cattle.

E-Western cattle, steers and heifers.

-Native cows.

G--Western cows.

The percentage of cuts from the lesser finished carcasses of beef are practically the same as those of the higher type beef. There may be a slight variation and lesser percentage in primal cuts such as ribs and loins, but such variation is only fractional. . In order to determine when profitable for you to handle what is all points of view, make tests as often as the opportunity presents itself, or as often as you are in doubt as to which would be most advantageous for you handle.

At your next visit to our plant we will demonstrate to you as far as possible the various qualities, weights and characteristics of the numerous classes and subdivision of classes herein enumerated to

At some future lesson we intend to take up with you the subject on dairy or dual purpose beef cattle.

COUNCIL HOLDS CUTTING TESTS.

At a recent meat cutting demonstration at the University of California Farm at Davis, near Sacramento, some very interesting figures were obtained which of service to meat retailers every-

The demonstration was conducted by R. W. Weiss, president of the meat council, and L. F. Armknecht, president of the San Francisco Butchers' Board of Trade, san Francisco Butchers Board of Irade, at the invitation of the director of the farm. Accompanying Messrs. Weiss and Armknecht were D. J. Murray, secretary of the San Francisco Butchers' Board of Trade, A. Shapro, a prominent market street retailer and member of the executive committee of the meat council, and Ernest Schaeffle, manager of the Meat Council of Northern California. The tests were as follows:

were as follows:		
	Carcass	Carcass
	No.1.	No. 2.
Animal	†	
Breed	++	**
Age, mos	16	33
Live weight, lbs	907	935
Dressed weight, lbs		432
Dressing, per cent		46.2
Weight of head		26.0
Weight of hide	74.0	62.0
Weight of offal		134.0
	Weight.	Weight,
	lbs.	lbs
Shin and shoulder		25.5
Cross ribs		10
Shin soup		15
Plate		27.0
Brisket (bone)		13
Navel		9
Short ribs	8	5.5
Prime ribs	32	23
Chuck rib roast	35	29
Neck	13	12
Loin	46	32
Sirloin	23	20
Short loin	23	12
Round	69	64
Bone		6.5
Sirloin butt		6
Rump		11
Heel		6
Shank		9
Round steak	24	25.5
Miscellaneous:		
Flank steak and fat.		2
Kidney		.75
Kidney suet		1.0
Trim		2.0

*Top good steer.
*Low medium steer.

††Aberdeen Angus. **Grade.

, 1923.

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DISPOSING OF HAM ENDS.

How to dispose of ham ends is a subject that is of interest to meat retailers and was demonstrated recently in a way and was demonstrated recently in a way that is useful to retailers in many places. At a recent meeting of the Toledo meat council J. B. Dolson gave a blackboard demonstration by showing how he disposes of the ham ends with the following recipe: 7 lbs. boiled ham ends—ground.

12 sweet pickles. 14c can pimentos.

8 oz. jar mayonnaise dressing.

If too dry when mixed add a little more

salad dressing.

CLEVELAND'S RETAIL ACCOUNTING.

The Cleveland Meat Council has made arrangements for a meeting for retail meat dealers for the purpose of introducing a standard system of bookkeeping for

The system has been developed and per-The system has been developed and perfected by the Northwestern University of Chicago, with the assistance and approva. of the U. S. Department of Agriculture. The National Association of Meat Countries of the Countries of the U. S. Department of Agriculture.

The U. S. Department of Agriculture. The National Association of Meat Councils is sponsoring the movement and they have acquired the services of men thoroughly equipped to introduce the uniform accounting system in the various cities which have meat councils.

On Monday evening, April 9, Professor Horace Secrist, director of the Bureau of Business Research, Northwestern University School of Commerce, will address the meeting at Moose Hall, which has been secured through the courtesy of the Cleveland Retail Meat Dealers' Association. He will explain this standard bookkeeping system, and Mr. Paul E. Newey of his staff will be on hand prepared to start the work of instruction and installation. Approximately twenty-five Cleveland retailers will be granted the immediate opportunity of receiving instruction and having the system put into effect in their establishments. establishments.

While the first group will consist of only twenty-five retailers, second and third groups will be taken on until the whole field of those desiring the system has been

ROCHESTER RAISED MEAT FUNDS.

The success of the subscription drive to put Rochester on the map in the great meat economy campaign movement speaks well for the intelligence and progressiveness of the Rochester meat retailers. R. M. Wheeler, organizer of the campaign, declared that no city heretofore had responded with so much immediate enthusiasm as Rochester.

Several meat retailers were so inspired

iasm as Rochester.
Several meat retailers were so inspired with enthusiasm that they left their markets to accompany Mr. Wheeler on his calls on fellow butchers and help him get their subscriptions. Albert F. Walker. vice-president of the Meat Council of Rochester, generously placed his car at Mr. Wheeler's disposal and personally drove him from market to market for four days in a stretch. The last couple of days of the campaign Wm. M. Stickel, president of the Rochester Master Butchers' Association, joined actively in the drive.

of the Rochester Master Butchers' Association, joined actively in the drive.
Within a week the necessary funds had been subscribed to pay for the great educational meat campaign which will run for six months in the Rochester Democrat & Chronicle. It is especially remarkable that such gratifying results had been achieved in Rochester without any special meeting of either the meat council as the mester butchers, or any other preparation.

OKLAHOMA RETAILERS TO CONVENE.

The state convention of the Oklahoma Meat Dealers' Association will be held Wednesday and Thursday at Oklahoma City, April 18 and 19. The call by Vice-President, C. J. Perry, in a bulletin, urges the butchers of the state to "make arrangements now to come and bring along



BARNES "The Scale of **QUALITY"**

Attractive Accurate

It is Fully Guaranteed

Sanitary

Sold only through

RELIABLE DEALERS

Barnes Scale Co. Detroit, Mich.

the good wife or sweetheart, and exchange ideas with the livest bunch of real fellows you ever met. Mr. Meat Dealer, your competitors. Why not get better acquainted? Put in and take out all that you can. In this way only can our organization be what we would have it."

LOCAL AND PERSONAL.

R. J. Keesey has opened a meat market at Canton, O.

T. J. Scharfenberg will open a new meat market at Galesburg, Ill.

Hall & Richardson, Perry, N. Y., will shortly erect a new meat market.

Howard & Small have engaged in the meat business at Reed City, Mich.

The Tokay meat market has been opened at 25 South School Street, Lodi, Cal.

The Visant Grocery. Pawnee, Nebr., has added a meat market to its business.

The meat market of Kelley & Son, Mon-roe, Nebr., has been destroyed by fire. W. C. Weber has bought the meat mar-

W. C. Weber has bought the meat market of Oliver Brothers, Bradford, Tenn.
H. A. Ferguson will soon sell a meat market to Wm. Haupt at Davenport, Ia.
Delyle Gilman has bought the meat market of Elmer Larson at Plymouth, Wis.
The Quality Meat Shop, 125 North 5th Street, Springfield, Ill., has been opened.
M. C. Saunders has succeeded to the market of Baichtal & Saunders, Sac City, Ia.

Ia. L. R. Summerfield, Puyallup, Wash., has bought the meat market of William Kel-

The meat market of Edward Allen, Braintree, Mass., was recently damaged by

H. E. Ward, Wymore, Nebr., has moved is meat market here from Belleville,

Kans.

Luther Gray, Callaway, Nebr., has succeded to the meat business of Sadler & Gray. P. E.

P. E. Law, Alliance, Nebr., has pur-chased the Third Street Market from W. F.

A new meat market has been opened on Arlington avenue, New Castle, Pa., by C. P. Craig. East End Meat Market, 15th and Jacob streets, Wheeling, W. Va., has been opened

streets, wheeling, W. Va., has been opened recently.

W. H. Frazier has purchased the East Side Meat Market, York, Nebr., from W. W. Moomey.

S. Caseb's meat market at 307 Alamo

For Sausage Makers

BELL'S

Patent Parchment Lined

SAUSAGE BAGS

and

SAUSAGE SEASONINGS

For Samples and Prices, write

THE WM. G. BELL CO. BOSTON \$mmmmma8

Plaza, San Antonio, Tex., has recently been opened.

The Royal Meat Market, Sioux Falls,
D., has been opened at Seventh and Main streets.

W. F. Raiford, Thomasville, Ga., has opened a new meat market at 209 West

Jackson street.

Robert C. Moore has purchased the Colonial Meat Market, 117 W. 10th Street, Sioux Falls, S. D.

T. M. Judd has opened a meat market at 510-A North Taylor Street, Marillo, Tex.,

at 510-A North Taylor Street, Marillo, Tex., and will remodel it.

The Nelson Beef Co., Poughkeepsie, N. Y., will shortly open a new meat market at 387 Main Street.

The La Crosse Meat Co., Endicott, Wash., has taken over the Endicott Cold Storage Meat Market.

Kelley & Johnston, Beaver City, Nebr., have been succeeded in the meat and grocery business by W. T. Kelley.

The Independent Meat Co. of Yakima, has purchased the City Meat Market of Hagerman & Son, Sunnyside, Wash.

John I. Amy, formerly of Greenville, Pa.,

John I. Amy, formerly of Greenville, Pa., and Hiram Cozadd have leased the store building at Plum street and opened a meat

Jos. Altan has sold his grocery and meat market, West Seventh Ave., Tarentum, Pa., to Durana & Pracko and opened up a grocery and meat market at 52 Chestnut Street, Natrona.

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New York Section

P. D. Armour, vice-president, Armour & Company, Chicago, is visiting in New York.

A. H. Ruff, construction department, The Cudahy Packing Co., Chicago, is a visitor to the city.

C. H. Brady, branch house department, Swift & Company, New York, is visiting Chicago this week.

Thomas E. Wilson, president, and J. Moog, vice-president, Wilson & Company, were in New York this week.

E. A. Tamblyn, beef department, and H. E. Hemingway, branch house provision department, Swift & Company, Chicago, are in New York.

W. F. Price, branch house manager, and A. E. Osborne, head of the accounting department, Morris & Company, Chicago, were in New York this week.

The Wilson Fellowship Club will have a package party for the Wilson employes at 816 First avenue on Tuesday evening, April 10. There will be a buffet luncheon and dancing.

G. V. Brecht, president of The Brecht Company of St. Louis and New York, returned recently from a visit of several months to South America where his company has extensive interests.

P. D. Armour of Armour & Company and W. F. Price of Morris & Company spoke to the Armour and Morris men at a smoker given for the purpose of welcoming the Morris men into the Armour organization.

Prices realized on Swift & Company's sales of carcass beef in New York City for the week ending March 31, 1923, on shipments sold out, ranged from 9 cents to 15.50 cents per pound, and averaged 13.79 cents per pound.

The First National Bank of Tenafly, N. J., opened its handsome new banking house at Railroad and West Clinton avenues on Saturday, April 7. The president of this bank is Weller H. Noyes, chairman of the Manhattan Sanitary Inspection Association, and former vice-president of Swift & Company of New York.

This is to remind the members of the United Master Butchers of America of Greater New York to tell their ladies that the next meeting of the Ladies' Auxiliary will be held in the meeting rooms of Ye Olde New York branch, 250 West 57th street on Wednesday, April 11, 2 p. m. Coffee and cake will be served.

R. Arndt, with the assistance of George Kramer, has accepted the chairmanship of the retail meat dealers' division in the forthcoming campaign for \$500,000 for Salvation Army work in Greater New York. Mr. Arndt has surrounded himself with an energetic committee through which the firms, employes and individuals in the retail meat trade will make their contributions.

Messrs. Arndt and Kramer are particularly interested in this campaign because it is strictly a home affair. Not a penny of the money is to be sent outside the city. It will interest friends of the Salvation Army to know that in addition to the familiar slogan, "A man may be down but he's

never out," the central committee has adopted the line, "Father Knickerbocker's best friend," as indicating the value of the army's work to Greater New York.

The campaign will be launched May 1, but the task of organizing committees has been in progress for several weeks.

The following is a report of the New York City Health Department of the number of pounds of meat, fish, poultry and game seized and destroyed in the city of New York during the week ending March 31, 1923: Meat—Manhattan, 274½ lbs.; Brooklyn, 10 lbs.; Queens, 1 lb.; Richmond, 150 lbs.; total, 435½ lbs. Fish—Manhattan, 2½ lbs.; Brooklyn, 7 lbs.; total, 9½ lbs.

YE OLDE NEW YORK BRANCH MEETS.

The meeting of Ye Olde New York branch, United Master Butchers of America, held on last Tuesday evening, was probably one of the largest this branch has had in some time. The greater part of the evening was devoted to the study of the new bookkeeping system. Mr. Buchanan of the U.S. Bureau of Agricultural Economics spoke at length on the subject, demonstrating on the blackboard, and outlining the advantages in such a manner as to cause those present to see the simplicity of the method. About forty installations have been made and there are thirty or forty on the waiting list. It seems doubtful if the supply will meet the demand as there is only a limited number.

Some time ago this branch wrote to the commercial banks and the American Bankers' Association requesting that the banks remain open on Saturday evenings until 9 o'clock in order to give the butchers an opportunity to deposit the day's receipts. The branch is now informed that this subject will have to be taken up with the New York Clearing House Association and as the burglaries of butcher shops have not ceased, the master butchers will push the matter in order to protect its members.

The ball committee made its final report, showing a very substantial balance after all expenses were paid.

The committee which had been appointed some time ago to gather information on compensation insurance made its final report to the effect that questionnaires and personal interviews proved conclusively that compensation insurance by a mutual company would be favorably received by the members in Greater New York. As the work of this committee is practically concluded, the various branches in this section have been requested to appoint two members on a tentative board for the final formation. Ye Olde New York branch appointed its president, George Kramer, and Past President A. F. Grimm.

Application for membership and initiation of new members show the branch to be in a healthy condition

The proposal of the Meat Council to have a series of lectures, instructive and helpful to the retailer, was favorably re-

Word was received that the Mandelbaum bill was to be introduced into the New York assembly on Wednesday and a request was made that two members be appointed to go to Albany and protest the passage of this obnoxious bill. L. Goldstein and L. Goldsmith were appointed.

WHOLESALE DRESSED MEAT PRICES.

Wholesale prices of Western dressed fresh meats were quoted by the U. S. Bureau of Agricultural Economics at Chicago and three Eastern markets on Thursday, April 5, 1923, as follows:

J, 1925, as follows.				
Fresh Beef-				
STEERS:	CHICAGO.	BOSTON.	NEW YORK.	
Choice	\$16.00@17.00	\$14.00@	\$15.00@15.50	\$14.50@15.50
Good	14.50@15.50	13.00@13.50	13.50@14.50	13.50@14.00
Medium	13.00@14.00	12.00@12.50	13.00@13.50	13.00@13.50
Common	11.00@12.00	11.00@12.00	12.50@13.00	12.00@13.00
COWS:	22100 @ 22100			
Good	11.00@12.00	11.50@12.00	11.00@12.00	11.00@12.00
Medium	9.00@10.00	10.00@11.00	10.00@11.00	10.00@11.00
Common	8.50@ 9.00	@	9.00@10.00	@
BULLS:	0.000 0.00		D100 @ 10100	
Good		@	@	@
Medium	@		@	@
Common	8.25@ 8.50	@	@	@
	0.20 0.00			
Fresh Veal*-	********	-	45 00 0 10 00	
Choice	16.00@17.00	@	17.00@19.00	@
Good	15.00@16.00	@	15.00@17.00	17.00@
Medium	14.00@15.00	12.00@13.00	14.00@15.00	15.00@16.00
Common	11.00@13.00	10.00@11.00	10.00@13.00	10.00@14.00
Fresh Lamb and Mutton-				
LAMB:				
Spring	28.00@30.00	26.00@29.00	27.00@28.00	25.00@28.00
Choice	24.00@25.00	24.00@26.00	24.00@25.00	22.00@24.00
Good	22.00@23.00	22.00@24.00	23.00@24.00	20.00@22.00
Medium	18.00@20.00	20.00@22.00	22.00@23.00	18.00@20.00
Common	16.00@18.00	18.00@20.00	20.00@21.00	@
YEARLINGS:	10.00 (2 10.00	10.000 20.00	20.00 @ 21.00	
Good	@	@	18.00@20.00	16.00@18.00
Medium	@	@		@
Common	@	@		@
MUTTON:				
Good	13.06@14.00	14.00@15.00	14.50@15.50	@
Medium	10.00@12.00	12.00@13.00	13.50@14.00	14.00@15.00
Common	8.00@ 9.00	12.00@13.00	10.50@12.50	12.00@13.00
	5.00 W 3.00		10.30@12.30	12.00 @ 13.00
Fresh Pork Cuts-				
LOINS:	********			
8-10 lb. average	14.00@15.00	15.50@16.50	15.00@16.50	15.00@17.00
10-12 lb. average	13.00@14.00	14.50@15.00	14.00@15.00	14.00@16.00
12-14 lb. average	12.00@13.00	13.50@14.00	13.00@14.00	13.50@15.00
14-16 lb. average	11.50@12.00	12.00@13.00	12.50@13.50	13.00@13.50
16 lb. over	11.00@11.50	11.50@12.00	12.00@13.00	12.00@13.00
SHOULDERS:				
Skinned	11.00@12.00		12.00@13.00	11.00@13.00
PICNICS:				
4-6 lb. average	10.00@11.00	11.00@12.00	10.00@11.00	
6-8 lb. average	9.00@10.00	10.00@11.00	9.00@10.00	@
BUTTS:				
Boston style	12.00@13.00	@	13.00@15.00	13.00@ 15.00

^{*}Veal prices include "hide on" at Chicago and New York.

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SHAFER SQUEAL CLUB CELEBRATES.

Two hundred and fifty of the employes of the meat packing firm of Shafer & Company gathered at the plant on Lombard street, Baltimore, on Monday, April 2, for the first dance and frolic of the Squeal Club, the good fellowship name of the sales organization. The arrangements for the frolic, so complete in every detail, were made by the following able committee, consisting of W. Edward Allers, chairman; Henry Heintzman, Charles Haefner, John A. Brown, Theo. C. Giese. The part of the plant turned over to the employes for the frolic was very elaborately decorated with palms and flowers and highly colored draperies, which gave every evidence of a big time for all, and when the evening waxed warm the distribution of a dozen different merry-making novelties added fun to

the occasion.

In addition to the employes and their families, the following officers were present and joined earnestly in the evening's fun: Mr. Howard R. Smith, president; Mr. W. K. Snyder, vice president; Mr. J. Fred Shafer, vice president and treasurer; Mr. E. G. Cover, chairman of the

Speech-making was barred except for one brief but invigorating address by President Smith, which was accorded great applause by those present.

The organization at Shafer & Company under the direction of its president, Mr. Howard R. Smith, has taken on vigorous new life. A full-fledged bowling league has been formed, consisting of twelve new life. A full-fledged bowling league has been formed, consisting of twelve teams; a completely uniformed baseball club has been organized for the coming season and periodical dances are being arranged under the auspices of the Squeal Club. The officers of the Squeal Club are: Ralph T. Wheatley, president; Jos. A. Bosse, treasurer; S. S. Hamilton, secretary.

EASTERN MEAT TRADE CONDITIONS.

Meat trade conditions for the week at New York, Philadelphia and Boston are reviewed by the United States Bureau of Agricultural Economics as follows:

Lack of demand was largely responsible for the weak to lower prices which prevailed on most classes of fresh meat this week. Mutton was an exception due to abnormally light receipts. Receipts of beef, veal and lambs were fairly liberal and pork moderate.

Steer receipts were largely of medium and good grade with a narrow price spread between choice and common on account of the scarcity of the latter. More good and choice heavy steers were offered account of the scarcity of the latter. More good and choice heavy steers were offered at New York than for some time. Cow receipts were light and sold fairly readily due in part to the absence of low-priced steers. The supply of bull was also light. The market ruling about steady. Boneless western bull meat at New York sold for next week's arrival at \$9.50 to \$10.50. Trading in kosher beef was light due to the Jewish holidays, but prices remained steady to firm. Hinds and ribs at New York were firm to one dollar higher.

Prices on good and choice grades of veal declined sharply during the week at New York and to a less extent on heavy grass carcasses, which were not plentiful. Good grade comprised the bulk of milkfed veal at that market. Prices at other markets were about steady, although some concessions were made late in the week. Frozen veal at New York sold mostly from \$8.50 to \$10.

Receipts of spring lamb were light, but buyers were indifferent and prices dropped sharply from last week's level. The market on older lambs was also

weak, although prices showed less de-cline. Receipts were liberal and demand slow. Frozen Argentine lambs at New York sold around \$18 under a light sup-

Prices on mutton were steady to strong

Prices on mutton were steady to strong due to light receipts and fair demand. Quality was only fair with comparatively few carcasses showing the most desirable weights and finish. Frozen Argentine mutton brought \$14 at New York.

The pork market was weak with prices ruling very uneven. Sales of large lots were made at concessions of \$1 to \$1.50 below the general market. Receipts were considerably in excess of the demand. Light loins and butts showed greatest weakness, although declines were general.

eral.

Boston is closing weak on most classes. There will be a carry over of pork and little beef. Other classes will be cleaned up. A considerable amount of beef will be carried on storage rail. New York is closing steady on cows, steady to firm on mutton, barely steady on lambs, weak on steers, veal and pork cuts. Some beef may be carried, some pork will be frozen. Philadelphia is closing weak on steers, veal, lambs and pork, steady on cows and mutton. Most classes will be cleaned.

LIVE STOCK IN SOUTH AMERICA.

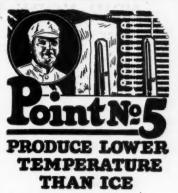
North American breeders and exporters of pure bred live stock will find much of interest to them in The Live-Stock Industry in South America, recently issued by the U.S. Department of Agriculture as Department Circular 228. The information contained in the circular was obtained at first hand by L. B. Burk and E. Z. Russell, representatives of the department who spent several months during 1920 investigating live-stock conditions in Argentina, Uruguay, Brazil, and Chile. A separate report is made on conditions in each of these four countries, attention being given to beef cattle, hogs, sheep, horses, and dairying.

In South America the growing of highclass live stock has been most highly developed in Argentina, which is one of the leading grain, cattle, and sheep countries of the world. Few Argentine farmers grow hogs, but the mild climate and long growing season, together with the abundance of corn and alfalfa, furnish very good conditions for economical pork production, and it is believed that the industry will and it is believed that the industry will expand within the next few years and that eventually a much larger percentage of the corn crop will be marketed on the hoof. The growing of more hogs should result in a demand for more breeding animals from the United States.

uruguay, a country about the size of Missouri, differs greatly from Argentina in having a soil closely underlaid with rock and in a lack of rainfall at the proper time. For these reasons and because of the ravages of grasshoppers, corn is an of the ravages of grasshoppers, corn is an uncertain crop and it is doubtful if hog raising will ever develop to any great extent. Excellent grazing is found however and cattle and sheep raising are the principal industries. On some ranches it is estimated that the wool clip, lamb crop, and increase in weight of the wethers, practically pay the running expenses of the ranches leaving returns from the cattle operations as net profit. Cattle and sheep are pastured together. sheep are pastured together.

Better Livestock For Brazil.

Brazil, although it is about the size of the United States, has very few breeders of pure bred live stock. However, there is an increasing interest in better bred animals. Many of the larger coffee plantation owners are raising live stock and some of them are beginning to establish



It takes just a little arithmetic to figure why mechanical refrigeration is best for a butcher or a grocer who wishes to keep meats, fish, and other food products in first class, salable condition.

The lowest possible temperature with ice is around 42 degrees Fahrenheit. With mechanical refrigeration your box can be kept at from 32 to 35 degrees Fahrenheit.

Now get this: A government re-port showed that milk increased its bacteria count 388 per cent in twen-ty-four hours at 42 degrees. In ninetyry-four hours at 42 degrees. In infery-six hours the count increased 13,300 per cent. While at 32 degrees the count decreased ten per cent in twenty-four hours, and twenty per cent in ninety-six hours.

I realize that the butchers and grocers do not sell very much milk or cream. But the above example only goes to show the wonderful effect the correct low temperature has in keeping products fresh.

market Joe

Baker Ic	e Mac	hine	Co.,	Inc.,	0m	aba,	Nebr.
Gentlem	en:						
Please	send	me	your	bulle	tin	42D	. We

Plea	186	1	96	er																	
about												 		 			1	9			
Name				*				*										*			
Street										*			,								
City																					

REFRIGERATION

herds of pure bred cattle and hogs. There herds of pure bred cattle and hogs. There is much room for improvement in cattle and hogs which are said to resemble the native types of southern and eastern Texas. The Zebu, an East Indian breed of cattle, resistant to the fever tick is used to give hardiness to the foundation stock, but imported bulls from the United States and other countries will be used to improve the type.

The investigators believe it will be

The investigators believe it will be some time before hogs will be imported from the United States in very great numbers, but there is now some demand for hogs of fairly good quality. If the Brazilian breeder can be assured of good results, it is believed that he will be willing to pay very good prices for North American cattle. American cattle.

American cattle.

The circular gives many other suggestions for American exporters of live stock to these countries, including the approximate dates of the important shows, popularity of the different breeds, diseases and pests to be encountered, and buying habitant breeders.

	ARKET PRICES	Western, 66 lbs. and over to dozen, lb28 @ Western, 48 to 54 lbs. to dozen, lb29 @		
LIVE CATTLE.	FRESH PORK CUTS.	Western, 43 to 47 lbs. to dozen, lb28		
eers, ordinary to prime	Fresh pork loins, Western, 10@12 lbs. avg.16 @17	Western, 36 to 42 lbs. to dozen, lb26 @ Western, 30 to 35 lbs. to dozen, lb24 @		
ows, common to choice1.75@ 5.50	Fresh pork tenderioins			
ills, common to choice4.00@ 6.40	Frozen pork loins, 10@12 lbs. avg	Fowls—Fresh—dry packed, corn fed—barrels. Western, dry packed, 5 lbs. and over, lb.27 @		
LIVE CALVES.	Shoulders, city, 10@12 lbs. avg16 @17	Western, dry packed, 41/2 lbs. each, lb27		
LIVE CALVES.	Shoulders, Western, 10@12 lbs. avg13 @14	Western, dry packed, 31/2 lbs. each, lb26 @		
lves, veal, prime, per 100 lbs16.75@17.00	Butts, boneless, Western18 @19	Western, dry packed, 3 lbs. and under, lb.23 @		
lves, veals, common to medium11.00@15.25	Butts, regular, Western14 @15	Old Cocks-Fresh-dry packed-boxes or bbls.		
lves, veals, culls, per 100 lbs 7.00@10.00	Fresh hams, city, 8@10 lbs, avg	Western, dry picked, small, boxes17		
LIVE SHEEP AND LAMBS.	Fresh hams, Western, 10@12 lbs. avg20 @21 Fresh picnic hams, Western, 6@8 lbs. avg.12 @13	Western, scalded, bbls16		
	Extra lean pork trimmings	Ducks—		
mbs, prime, 100 lbs	Regular pork trimmings, 50% lean 8 @ 9	Western, per lb., boxes18		
eep, ewes, prime, 100 lbs	Fresh spare ribs	Squabs—		
seep, ewes, common to good, per 100 lbs. 4.50% 1.00	Raw leaf lard @13	White, 11 to 12 lbs. to dez., per dez10.006		
LIVE HOGS.	BONES, HOOFS AND HORNS.	White, 10 lbs. to doz., per doz 8.506		
ogs, heavy 8%@ 9	BONES, HOUFS AND HORNS.	Culls, per doz 1.506		
ogs, medium 9½ @ 9½	Round shin bones, avg. 48 to 50 lbs.,	LIVE POULTRY.		
ogs, 140 lbs 9½ @ 9½	per 100 pes	Chickens, via express27		
gs, under 70 lbs 8%@ 9	Flat shin bones, avg. 40 to 45 lbs., per 100 pcs	Old roosters, via freight		
nughs 7 @ 7½	Black hoofs, per ton	Ducks, via express		
DRESSED BEEF.	Striped hoofs, per ton	Geese, via express		
	White hoofs, per ton	Pigeons, per pair, via freight or express		
CITY DRESSED.	Thigh bones, avg. 85 to 90 lbs., per	Guineas, per pair, via freight or express		
oice, native, heavy	100 pcs	BUTTER.		
oice, native, light	Horns, avg. 714 oz. and over, No. 1s. 300.00@325.00	Creamery, extras (92 score)		
ative, common to fair141/2@16	Horns, avg. 71/2 oz. and over. No. 2s250.00@275.00 Horns, avg. 71/2 oz. and over. No. 3s200.00@225.00	Creamery, seconds481/2		
WESTERN DRESSED BEEF.		Creamery, firsts		
itive steers, 600@800 lbs	FANCY MEATS.	Creamery, lower grades47½		
tive choice yearlings, 400@600 lbs15 @16	Fresh steer tongues, untrimmed @32c a pound	EGGS.		
estern steers, 600@800 lbs	Fresh steer tongues, untrimmed @32c a pound Fresh steer tongues, L. C. trim'd @38c a pound	Fresh gathered, extras, per doz30		
xas steers, 400@600 lbs11 @12	Calves, heads, scalded @65e a piece	Fresh gathered, extra firsts27		
od to choice heifers14 @15	Sweetbreads, veal @75c a pair	Fresh gathered, firsts		
oice cows	Sweetbreads, beef	Fresh gathered checks, fair to choice, dry.21		
mmon to fair cows	Beef kidneys	Fresh gathered dirties, No. 1231/2		
esh bologna bulls 8 @ 81/3	Mutton kidneys	FERTILIZER MARKETS.		
BEEF CUTS.	Oxtails	BASIS NEW YORK DELIVERY.		
	Hearts, beef @ 8c a pound	Ammoniates.		
Western. City.	Beef hanging tenders @15c a pound	Ammonium sulphate, bulk, f. e. b. works, per 100 lbs\$3,30 @		
0. 1 ribs	Lamb tries	Ammonium sulphate, double bags, per		
o. 3 ribs	BUTCHER'S FAT.	100 lbs., f. o. b. New York 3.75		
o. 1 loins	BOICHERS FAI.	Blood, dried, 15-16% built, per unit @		
o. 2 loins	Shopfat @ 31/4	Fish scrap, dried, 11% ammonia, 15% B. P. L., delivered Baltimore Nomis		
o. 3 loins	Breast fat @ 4%	Fish guano, foreign, 18@14% ammonia,		
o. 1 hinds and ribs23 @24 18½@22	Edible suet	10% B. P. L 5.10 a		
0. 2 hinds and ribs16 @18 17 @18 0. 3 hinds and ribs19 @12 15½@16½	Cond. suet	Fish scrap, acidulated, 6% ammenia, 3% A. P. A., f. o. b. fish factory 3.85 at		
0. 3 hinds and ribs10 @12 15½@16½ 0. 1 rounds		Soda nitrate, in bags, 100 lbs., spot @		
o. 2 rounds	SPICES.	Soda nitrate, in bags, futures		
o, 3 rounds @10 10 @11	Whole. Ground.	Tenkage, ground, 10% ammonta, 15% B. P. L., bulk		
0. 1 chucks	Pepper, Sing., white 15 18 Pepper, Sing., black 11½ 14½	Tankage, unground, 9-10% ammonia 4.00 a		
o. 2 chucks	Pepper, red	Phesphates,		
o. 3 chucks	Allspice 51/4 81/4	Bone meal, steamed, 3 and 50 bags per		
olls, reg., 6628 lbs. avg	Cinnamon 13½ 17½	ton@		
olls, reg., 4@6 lbs. avg	Coriander	Bone meal, raw, 41/2 and 50 bags per ton		
enderloins, 4@5 lbs. avg	Cloves	Acid phosphate, bulk, f. o. b. Balt.,		
mderloins, 5@6 lbs. avg80 @90	Ginger	per ton, 16%		
oulder clods10 @11		Potash.		
DRESSED CALVES.	CURING MATERIALS.	Kalnit, 12.4% bulk, per ton @ Manure salt, 20% bulk, per ton @		
* 1	Double	Manure salt, 20% bulk, per ton @1 Muriate, in bags, basis 80%, per ton @2		
mais, city dressed, good to prime, per lb @30 mais, country dressed, per lb	In lots of less than 25 bbls.: Bbls. bags.	Sulphate, basis 90%, bags, ton		
estern calves, choice	Double refined saltpetre, gran 61/4 61/4			
estern calves, fair to good16 @21	Double refined saltpetre, small crystals. 74, 74, Double refined nitrate soda, granulated 44, 44,	BUTTER AT FOUR MARKETS		
rassers and buttermilks13 @15	Double refined nitrate soda, granulated 1/2 1/8 Double refined nitrate soda, crystals 51/4 51/8	BUTTER AT FOUR MARKETS.		
DRESSED HOGS.	In 25-bbl. lots:	Wholesale prices of 92 score butter		
	Double refined saltpetre, granulated 61/2 6	Chicago, New York, Boston and Phil		
ogs, heavy	Double refined saltpetre, small crystals. 7% 7	phia, for the week of March 24 to M 30, 1923:		
ogs, 180 lbs	Double refined nitrate soda, granulated4% 4% Double refined nitrate soda, crystals 5% 5	March		
logs, 140 lbs	Double refined nitrate soda, crystals 51/3 5 In carload lots:	24. 26. 27. 28. 29. 30.		
igs, 80 lbs@14	Double refined nitrate soda, granulated 4¼ 4½	New York50½ 50½ 49½ 49 49 49		
DRESSED SHEEP AND LAMBS.	Double refined nitrate soda, crystals 5 4%	Boston52 52 52 52 51½ 51½ Phila50½ 50½ 50½ 48½ 48½ 49		
	GREEN CALFSKINS.	Wholesale prices of carlots, fresh		
ambs, 8@10 lbs. avg		tralized butter, 90 score at Chicago:		
heep, choice	5-9 9½-12½ 12½-14 14-18 18 lbs.	March		
heep, medium to good	lbs. lbs. lbs. lbs. up. Prime No. 1 veals 19 2.15 2.25 2.50 3.25	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
heep, culls 8 @10 .	Prime No. 2 veals.17 1.95 2.00 2.25 3.00	Receipts of butter by cities, tubs:		
SMOKED METER	Buttermilk No. 116 1.85 1.90 2.15	This Last Last Since Jan		
SMOKED MEATS.	Buttermilk No. 214 1.65 1.65 1.90	week. week. year. 1923. Chicago 31,808 28,523 27,150 603,184		
ams, 8@10 lbs. avg22 @23	Branded grubby11 1.15 1.25 1.40 1.85	New York35,557 39,740 39,616 726,163		
ams, 10@12 lbs. avg	No. 3At value	Boston13,145 10,469 10,370 198,961 Phila10,028 17,505 9,292 203,036		
	DRESSED POULTRY.			
lams, 12@14 lbs. avg		Total90,538 96,237 86,428 1,731,344 1,		
iams, 12@14 lbs. avg	FRESH KILLED.	Cold storage movement the		
iams, 12@14 lbs. avg. .21 @22 denies, 4@6 lbs. avg. .14 @15 denies, 6@8 avg., per lb. .14 @15		Cold storage movement, lbs.:		
Iams, 12@14 lbs. avg. 21 @22 icnics, 4@6 lbs. avg. 14 @15 iclenics, 6@8 avg per ib. 14 @15 towisttes, 6@8 lb. avg., per ib. 17 @18	FRESH KILLED. Fowls—Fresh—dry packed, milk fed—12 to box. Western, 66 lbs. and over to dozen, lb30 @31	Cold storage movement, lbs.: Into Out of On hand Cor. storage, storage, Mar. 30. week		
fams, 12@14 lbs, avg 21 @22 clenics, 4@6 lbs. avg 14 @15 clenics, 6@8 avg per lb 14 @15 towistes, 6@8 lb. avg per lb 17 @18 leef tongue light 35 @40 coof tongue heavy 43 @45	Fowls—Fresh—dry packed, milk fed—12 to box. Western, 66 lbs. and over to dozen, lb30 @31 Western, 48 to 54 lbs. to dozen, lb31 @32	Cold storage movement, lbs.: Into Out of On hand Cor. storage. storage. Chicago37,444 203,388 658,231 2,5		
Iams, 12@14 lbs. avg. 21 @22 icnics, 4@6 lbs. avg. 14 @15 icnics, 6@8 avg per lb. 14 @15 icnics, 6@8 lb. avg., per lb. 17 @18 deef tongus, light. 35 @40	Fowls—Fresh—dry packed, milk fed—12 to box. Western, 66 lbs. and over to dozen, lb30 @31	Cold storage movement, lbs.: Into Out of On hand Cor. storage. storage. Mar. 30. week Chicago37.444 203.388 658.221 2,4		

DRESSED POULTRY.

FRESH KILLED.

Fowls-Fre	packed, milk f		ilk fed	ed-12 to box.			
Western,	66	lbs.	and o	ver 1	to doze	en, lb30	@31
Western,	48	to 5	4 lbs.	to e	dozen,	lb31	@32
Western,	43	to 4	7 lbs.	to e	dozen,	lb30	@31
Western,	36	to 4	2 lbs.	to e	dozen,	lb28	@29
Western,	30	to 3	5 lbs.	to e	dozen,	lb26	@27

@81 @284 @264 @224 @224

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